AUTHOR INDEX TO VOLUME 193

Abate, G., 1607
Aboudharam, G., 112
Acevedo, J., 1098
Achalapong, J., 1504
Adams, S. M., 413
Adegbola, R. A., 1279
Aderem, A., 1693
Agapov, E., 396
Agarwal, N., 165
Agence Nationale de Recherches sur le SIDA Ditrame Plus Study Group, 482
Agrati, C., 1244, 1606
Aguilera, J. F., 900
Ahmad, Q. S., 1029
Ahmed, A., 515
Ahrens, K., 1336
AIDS Clinical Trials Group 360 Team, 488
Ainsworth, J., 1437
Akira, S., 1400
Albert, N. D., 1014
Al-Harthi, L., 1202
Alifrangis, M., 1738
Almi, P., 1219
Alter, H. J., 563
Ambrosino, D. M., 685
Anderson, J. L., 494
Ang, C. W., 1471
Ansari, M. A., 1304
Antiretroviral Resistance Cohort Analysis Study Group, 1219
Antoine, A. D., 155
Apostolidis, C., 1427
Arav-Boger, R., 788
Ardagna, Y., 112
Arden, K. E., 1630
Arellano, F., 898
Ari, M., 607
Ariyadej, S., 1504
Armstrong, G. D., 1120
Aroniadis, O. C., 879
Arrecubieta, C., 1109
Arvin, A. M., 1350
Arya, S. C., 165
Asahi-Ozaki, Y., 773
Asai, T., 1109
Asymptomatiques à Long Terme Study Group, 1047
Atkinson, C. E., 912
Atmar, R. L., 760
Atuguba, F., 467
Auethavornanan, K., 1078
Auray, G., 1400
Autran, B., 1047
Avirutnan, P., 1078
Baba, M., 1371
Babcock, G. J., 685
Badiaga, S., 474
Baea, K., 1567
Baetselier, P. D., 1575
Baggett, H. C., 537, 1487
Bagni, R. K., 1250
Bajaj-Elliott, M., 1464
Bakaki, P. M., 422, 1250
Bakker, A. B. H., 796
Bakyaita, N., 9
Balaban, N., 180
Baldari, M., 1219
Balira, R., 458
Ballinger, J., 1437
Balsara, Z. R., 1459
Bancroft, G. J., 370
Banks, S. M., 634
Baral, T. N., 1575
Barber, S. A., 963
Baril, L., 792
Barin, F., 1504
Baron, H. M., 1109
Barozzi, N., 1666
Barral, A., 1313
Barral-Netto, M., 1313
Barrassi, L., 380
Barrientes, F., 556
Barrier, M., 1400
Battaglia, S., 996
Bauer, G., 1544
Bayer, C. R., 1685
Bayern, M., 1109
Baykam, N., 941
Beard, R. S., 413
Beck, H.-P., 1567
Beeson, J. G., 721
Bejarano, M. T., 971
Bekele, K., 1211
Bekker, L.-G., 1703
Belghiti, J., 996
Belkaid, Y., 1313
Bellanova, D., 1718
Bellettato, C. M., 404
Belmont, J., 1188
Belshe, R., 1344
Belshe, R. B., 1607
Benach, J. L., 902
Benitez, A., 1544
Benoist, H., 136
Bequet, L., 482
Berg, D. E., 1037
Bergeron, M. G., 54
Berkhout, B., 283
Bermudez, L. E., 1135
Bernardet, N., 1400
Bernstein, D. I., 591, 1350
Bertz, R. J., 1611
Bevins, C. L., 1464
Bhakdi, S., 1078
Bhakeecheep, S., 1504
Bharadwaj, M., 664
Bialasiewicz, S., 1630
Biggar, R. J., 277, 422, 1250
Bishai, W. R., 1287
Biswas, K., 1029
Biswas, S., 1304
Blackwelder, W. C., 1516
Blake, M., 129
Blanc, C., 996
Blanton, L. H., 413
Blettner, M., 1078
Boeckh, M., 1619
Boivin, G., 54, 1634
Bommarito, F., 1178
Bonawitz, R. E., 196
Bonkovsky, H. L., 931
Bonnard, P., 748
Boomker, J. M., 1552
Booth, T., 899
Bordi, L., 1244, 1606
Borrow, R., 812
Bosch, R. J., 488
Bosques, C. J., 1125
Bottazzi, M. E., 155
Bousema, J. T., 1151
Bouvet, A., 741
Bouvet, E., 1048
Bower, M., 1051
Boyer, J. D., 1441
Braciale, T. J., 765
Bradshaw, C. S., 336, 1478
Brady, R. C., 1223
Braitstein, P., 259
Bravo, F. J., 591
Brazma, D., 912
Brechot, C., 996
Breen, R. A. M., 1437
Breuer, J., 927
Brinker, M. G. L., 1552
Brinkhof, M. W. G., 259
Brodskyn, C. I., 1313
Bröker, B. M., 1275
Brombacher, F., 1575
Brookes, R. H., 1279
Brouqui, P., 474
Brown, E. E., 1054
Brown, G. V., 721
Brown, J. B., 387
Brown, K. E., 582
Bruden, D. L., 1487
Brummell, K. J., 1098
Brummer, E., 1023
Brunet, S., 1504
Brunham, R. C., 1338
Brustoski, K., 146
Bryan, R. A., 1427
Bryant, A. E., 1685
Buguet, A., 987
Bulens, S. N., 413
Burighel, N., 1718
Burke, D. S., 601
Burrascano, J. J., 901
Burrows, J., 664
Busse, B., 617
Busse, W. W., 1536
Butler, J. C., 1487
Butterton, J. R., 1125
Buyck, H. C. E., 912
Bygbjerg, I. C., 1738
Byrne, T. J., 721
Cabral, E. S., 849
Cadavid, D., 1451
Cai, D., 88
Calarota, S. A., 1441
Calderón, E. J., 1332
Cameron, B., 664
Campanelli, A. P., 1313
Campese, C., 102
Campitelli, L., 900
Cane, P. A., 59
Cannon, R. O., 1516
Cantéro, A.-V., 136
Cao. W.-C., 792
Capobianchi, M. R., 1244, 1606
Capua, I., 900
Caragounis, A., 721
Cardin, R. D., 591
Carleton, H. A., 1495
Carlis, J., 703
Carlone, G. M., 607
Carman, R. J., 1143
Carnahan, J. A., 1063
Carr, A., 1742
Carrat, F., 1613
Carrington, M., 698
Carsetti, R., 1189
Casadevall, A., 1178, 1427
Casalta, J.-P., 1711
Caserta, M. T., 1063
Cash, R. A., 331
Castilletti, C., 1244, 1606
Cate, T. R., 1223
Cavalcanti, V. L., 1394
Cavassani, K. A., 1313
Celikbas, A., 941
Celum, C., 698
Cespuglio, R., 987
Chaitram, J., 172
Chaix, M.-L., 482
Chamilos, G., 1014
Chan, A. O. O., 1037
Chan, P. K. S., 1244
Chandawat, H., 1304
Chandramohan, D., 1609
Chang, L.-Y., 283
Chang, M.-L., 1365
Chang, R. F., 1495
Chang, S.-C., 645
Chang, W.-Y., 98
Changalucha, J., 458
Chanock, S. J., 1054
Chart, H., 1120
Chatt, J., 607
Chaussé, A.-M., 1400
Che, D., 102
Chen, B.-F., 1258
Chen, D.-S., 1258
Chen, H., 1626
Chen, J.-C., 1365
Chen, M. H., 1037
Chen, P.-J., 283, 1258
Chen, S., 479, 1512
Chen, S.-C., 98
Chen, Y.-C., 1365
Chen, Z., 625

AUTHOR INDEX TO VOLUME 193

Abate, G., 1607
Aboudharam, G., 112
Acevedo, J., 1098
Achalapong, J., 1504
Adams, S. M., 413
Adegbola, R. A., 1279
Aderem, A., 1693
Agapov, E., 396
Agarwal, N., 165
Agence Nationale de Recherches sur le SIDA Ditrame Plus Study Group, 482
Agrati, C., 1244, 1606
Aguilera, J. F., 900
Ahmad, Q. S., 1029
Ahmed, A., 515
Ahrens, K., 1336
AIDS Clinical Trials Group 360 Team, 488
Ainsworth, J., 1437
Akira, S., 1400
Albert, N. D., 1014
Al-Harthi, L., 1202
Alifrangis, M., 1738
Almi, P., 1219
Alter, H. J., 563
Ambrosino, D. M., 685
Anderson, J. L., 494
Ang, C. W., 1471
Ansari, M. A., 1304
Antiretroviral Resistance Cohort Analysis Study Group, 1219
Antoine, A. D., 155
Apostolidis, C., 1427
Arav-Boger, R., 788
Ardagna, Y., 112
Arden, K. E., 1630
Arellano, F., 898
Ari, M., 607
Ariyadej, S., 1504
Armstrong, G. D., 1120
Aroniadis, O. C., 879
Arrecubieta, C., 1109
Arvin, A. M., 1350
Arya, S. C., 165
Asahi-Ozaki, Y., 773
Asai, T., 1109
Asymptomatiques à Long Terme Study Group, 1047
Atkinson, C. E., 912
Atmar, R. L., 760
Atuguba, F., 467
Auethavornanan, K., 1078
Auray, G., 1400
Autran, B., 1047
Avirutnan, P., 1078
Baba, M., 1371
Babcock, G. J., 685
Badiaga, S., 474
Baea, K., 1567
Baetselier, P. D., 1575
Baggett, H. C., 537, 1487
Bagni, R. K., 1250
Bajaj-Elliott, M., 1464
Bakaki, P. M., 422, 1250
Bakker, A. B. H., 796
Bakyaita, N., 9
Balaban, N., 180
Baldari, M., 1219
Balira, R., 458
Ballinger, J., 1437
Balsara, Z. R., 1459
Bancroft, G. J., 370
Banks, S. M., 634
Baral, T. N., 1575
Barber, S. A., 963
Baril, L., 792
Barin, F., 1504
Baron, H. M., 1109
Barozzi, N., 1666
Barral, A., 1313
Barral-Netto, M., 1313
Barrassi, L., 380
Barrientes, F., 556
Barrier, M., 1400
Battaglia, S., 996
Bauer, G., 1544
Bayer, C. R., 1685
Bayern, M., 1109
Baykam, N., 941
Beard, R. S., 413
Beck, H.-P., 1567
Beeson, J. G., 721
Bejarano, M. T., 971
Bekele, K., 1211
Bekker, L.-G., 1703
Belghiti, J., 996
Belkaid, Y., 1313
Bellanova, D., 1718
Bellettato, C. M., 404
Belmont, J., 1188
Belshe, R., 1344
Belshe, R. B., 1607
Benach, J. L., 902
Benitez, A., 1544
Benoist, H., 136
Bequet, L., 482
Berg, D. E., 1037
Bergeron, M. G., 54
Berkhout, B., 283
Bermudez, L. E., 1135
Bernardet, N., 1400
Bernstein, D. I., 591, 1350
Bertz, R. J., 1611
Bevins, C. L., 1464
Bhakdi, S., 1078
Bhakeecheep, S., 1504
Bharadwaj, M., 664
Bialasiewicz, S., 1630
Biggar, R. J., 277, 422, 1250
Bishai, W. R., 1287
Biswas, K., 1029
Biswas, S., 1304
Blackwelder, W. C., 1516
Blake, M., 129
Blanc, C., 996
Blanton, L. H., 413
Blettner, M., 1078
Boeckh, M., 1619
Boivin, G., 54, 1634
Bommarito, F., 1178
Bonawitz, R. E., 196
Bonkovsky, H. L., 931
Bonnard, P., 748
Boomker, J. M., 1552
Booth, T., 899
Bordi, L., 1244, 1606
Borrow, R., 812
Bosch, R. J., 488
Bosques, C. J., 1125
Bottazzi, M. E., 155
Bousema, J. T., 1151
Bouvet, A., 741
Bouvet, E., 1048
Bower, M., 1051
Boyer, J. D., 1441
Braciale, T. J., 765
Bradshaw, C. S., 336, 1478
Brady, R. C., 1223
Braitstein, P., 259
Bravo, F. J., 591
Brazma, D., 912
Brechot, C., 996
Breen, R. A. M., 1437
Breuer, J., 927
Brinker, M. G. L., 1552
Brinkhof, M. W. G., 259
Brodskyn, C. I., 1313
Bröker, B. M., 1275
Brombacher, F., 1575
Brookes, R. H., 1279
Brouqui, P., 474
Brown, E. E., 1054
Brown, G. V., 721
Brown, J. B., 387
Brown, K. E., 582
Bruden, D. L., 1487
Brummell, K. J., 1098
Brummer, E., 1023
Brunet, S., 1504
Brunham, R. C., 1338
Brustoski, K., 146
Bryan, R. A., 1427
Bryant, A. E., 1685
Buguet, A., 987
Bulens, S. N., 413
Burighel, N., 1718
Burke, D. S., 601
Burrascano, J. J., 901
Burrows, J., 664
Busse, B., 617
Busse, W. W., 1536
Butler, J. C., 1487
Butterton, J. R., 1125
Buyck, H. C. E., 912
Bygbjerg, I. C., 1738
Byrne, T. J., 721
Cabral, E. S., 849
Cadavid, D., 1451
Cai, D., 88
Calarota, S. A., 1441
Calderón, E. J., 1332
Cameron, B., 664
Campanelli, A. P., 1313
Campese, C., 102
Campitelli, L., 900
Cane, P. A., 59
Cannon, R. O., 1516
Cantéro, A.-V., 136
Cao. W.-C., 792
Capobianchi, M. R., 1244, 1606
Capua, I., 900
Caragounis, A., 721
Cardin, R. D., 591
Carleton, H. A., 1495
Carlis, J., 703
Carlone, G. M., 607
Carman, R. J., 1143
Carnahan, J. A., 1063
Carr, A., 1742
Carrat, F., 1613
Carrington, M., 698
Carsetti, R., 1189
Casadevall, A., 1178, 1427
Casalta, J.-P., 1711
Caserta, M. T., 1063
Cash, R. A., 331
Castilletti, C., 1244, 1606
Cate, T. R., 1223
Cavalcanti, V. L., 1394
Cavassani, K. A., 1313
Celikbas, A., 941
Celum, C., 698
Cespuglio, R., 987
Chaitram, J., 172
Chaix, M.-L., 482
Chamilos, G., 1014
Chan, A. O. O., 1037
Chan, P. K. S., 1244
Chandawat, H., 1304
Chandramohan, D., 1609
Chang, L.-Y., 283
Chang, M.-L., 1365
Chang, R. F., 1495
Chang, S.-C., 645
Chang, W.-Y., 98
Changalucha, J., 458
Chanock, S. J., 1054
Chart, H., 1120
Chatt, J., 607
Chaussé, A.-M., 1400
Che, D., 102
Chen, B.-F., 1258
Chen, D.-S., 1258
Chen, H., 1626
Chen, J.-C., 1365
Chen, M. H., 1037
Chen, P.-J., 283, 1258
Chen, S., 479, 1512
Chen, S.-C., 98
Chen, Y.-C., 1365
Chen, Z., 625

Cheshenko, N., 27
Cheung, C.-L., 1626
Cheung, C. Y., 945
Chiang, B.-L., 283
Chiappini, E., 1333
Chidawanyika, H., 860
Chien, J. W., 1619
Child, M. J., 1611
Cho, C. H., 1037
Choi, J.-H., 1023
Chu, D., 387
Chu, M., 387
Chuang, W.-L., 98
Chuang, Y.-P., 645
Chumakov, K., 1344
Chumakov, K. M., 598
Chung, M., 672
Cimini, E., 1606
Cirioni, O., 180
Clark, D. A., 912
Clarke, S. R., 1098
Clements, J. E., 963
Cockburn, I. A., 1567
Coleman, J. L., 902
Collins, P. L., 573
Coltel, N., 312
Comolli, G., 269
Cooper, D. A., 505
Cooper, M., 302
Corey, L., 672, 698, 1619
Cornet, M., 741
Corsi, P., 1219
Cortés, A., 1567
Cotter, A. M., 1195
Cottrell, G., 713
Couch, R. B., 1223
Coulibaly, B., 1711
Coutinho, H. M., 749
Coviello, S., 1544
Cox, M. M. J., 1223
Coyle, A. J., 404
Cranston, B., 277
Crawford, C. L., 1743
Creech, C. B., II, 169
Croom-Carter, D., 287
Cropley, I., 1437
Crowe, J. E., Jr., 387
Crowe, S. M., 693
Crutcher, K. A., 442
Cui, X., 634, 829
Cunha-Neto, E., 1394
Cutland, C., 573, 1236
Cutts, F., 166
Cytomegalovirus Retinitis and Viral Resistance Study Group, 1728
Dabal, M., 607
Dabis, F., 482
Dadachova, E., 1427
Daddario-DiCaprio, K., 1650
Dai, A., 1441
Dai, C.-Y., 98
Dalgaard, M. B., 1738
Dam, T., 1135
Danelishvili, L., 1135
Danesh, A., 45
Dang, N. C., 1109
Dangou, J.-M., 713
Dankner, W., 302
Danner, R. L., 634
Das, M. K., 1304
Davenport, G. C., 1384
Davids, V., 531
Davidson, R. N., 354
Davis, J., 1178
Day, N. P. J., 1098
Dean, G. A., 1520
Deatly, A. M., 573
De Carli, G., 1048
Deepe, G. S., Jr., 322, 888
Defechereux, P., 302
DeHovitz, J., 455
Dejam, A., 1516
de Jong, B. C., 1279
Dela Cruz, J. V., 821
Delahaye, N. F., 312
de la Horra, C., 1332
de Leij, L. F. M. H., 1552
Delgado, M. F., 1544
Dell'Acqua, G., 180
Deloge-Abarkan, M., 1333
Deloron, P., 713
De Luca, A., 1219
De Marco, M. A., 900
Deng, M. C., 1109
der Poll, T. v., 214
Déry, P., 54
De Santis, R., 1606
Desenclos, J.-C., 102
De Serres, G., 54
Desmond, R. A., 556
Detels, R., 698
Dev, V., 1304
de Vos, A. F., 187
Dewhurst, S., 1063
Dhaliwal, W., 1464
Dhawan, D., 36
Di Bisceglie, A. M., 931
Dickman, K. R., 1384
Diep, B. A., 1495
Dietzschold, B., 796
Di Giambenedetto, S., 1219
Di Pietro, M., 1219
Di Trani, L., 900
Djingarey, M. H., 607
Dobson, C. B., 442
Doherty, C., 1528
Doherty, M. C., 931
Dokomajilar, C., 978, 1160
Dokuzoguz, B., 941
Domenech, P., 196
Donatelli, I., 900
Donati, D., 971
Dong, H. F., 1164
Dong, W., 129
Donkor, S. A., 1279
Dorsey, G., 9, 978, 1160
Dowson, C. G., 1296
Dragunsky, E. M., 598
Drakeley, C. J., 1151
Drancourt, M., 112
Drennan, M., 1575
Drigo, S. A., 1394
Druilhe, P., 996
Du, W., 1202
Duan, L., 703
Dubbo Infection Outcomes Study, 664
Dudaronek, J. M., 963
Duke, G., 1350
Dunaway, E., 537
Durum, S., 1054
Duthely, M. L., 1195
Dutour, O., 112
Dyer, J., 1666
Easton, A., 370
Eckels, K. H., 1658
Eckmanns, T., 1408
Edamatsu, T., 1164
Edwards, K. M., 387
Edwards, L., 223
Edwards, R. H., 287
Eichacker, P. Q., 634, 829
Eichler, P., 1275
Ekouevi, D. K., 482
Elgie, C., 302
Elie, C. M., 607
Eling, W., 996
Elixhauser, A., 898
Ellery, P., 693
Elliott, S. R., 721
Emerson, S., 625
Emerson, S. S., 1211
Endy, T. P., 1658
Enevold, A., 1738
Engelberg, R., 672
Engelmann, S., 1275
Engels, E. A., 422, 1250
Ennis, F. A., 603
Epstein, S. L., 49, 1613
Erard, V., 1619
Ergonul, O., 941
Erice, A., 488
Eshleman, S. H., 479, 1512
Eske, K., 1275
Eslick, J., 1607
Espmark, E., 971
Estes, J. D., 703
Etienne, J., 102
European Collaborative Study, 954
European Paediatric Hepatitis C Virus Network, 1050
Fabbri, E., 783
Fabiani, C., 900
Faé, K. C., 1394
Fairley, C. K., 336, 1478
Falk, K. I., 971
Fallin, M. D., 16, 1054
Fang, C.-T., 645
Faruque, A. S. G., 1029
Faruque, S. M., 1029
Fauci, A. S., 1172
Fawzi, W. W., 756
Fazou, C., 664
Feldman, R. A., 1464
Feng, Y., 1125
Feng, Z., 537
Feng, Z. H., 1037
Ferrandiz, J., 987
Ffrench, R., 664
Fick, L., 1575
Fierer, J., 1323
Fievet, N., 713
Fischer, K., 455
Fiscus, S. A., 479, 1512
Fitz, Y., 634, 829
Fitzgerald, J. R., 1109
Florent, M., 741
Flori, L., 312
Florquin, S., 187, 214, 522
Flowers, M. E., 1619
Fontanet, A., 792
Forman, M. S., 1728
Forster, J., 438
Fosheim, G., 172
Foster, C. B., 788
Foster, S. J., 1098
Foster, T. J., 1109
Foucault, C., 474
Fournier, P.-E., 112
Fox, A., 1279
Fox, J. D., 1361
Fox, J. G., 1125
Francis, D., 9, 978
Francisci, D., 1219
Frederick, T., 1202
Frey, S. E., 1607
Fridkin, S. K., 172
Friedman, H. M., 1617
Fritz, E. A., 1650
Fuchs, K., 129
Fugo, K., 1557
Fulford, T., 1528
Fullmer, B., 1172
Funk, G. A., 80
Furione, M., 269, 783
Gagneux, S., 1279
Galai, N., 16
Gallant, J. E., 1742
Galli, L., 1333
Gama, L., 963
Gamieldien, H., 531
Ganiayre, F., 102
Gao, P., 1164
García, A., 1125
Garcia, A. G., 1195
Garcia, E., 1451
Garland, S. M., 336, 1478
Gasasira, A. F., 9
Gastmeier, P., 1408
Gates. M. A., 1589
Gaudreault-Keener, M., 396
Gavyole, A., 458
Gazzard, B., 1051
Ge, S., 1643
Gebretsadik, T., 1536
Geisbert, J. B., 1650
Geisbert, T. W., 1650
Gelderbloem, S. J., 531
Gelderblom, H., 849
Genheimer, C. W., 1143
Genini, E., 269
George, S. L., 451
Gerding, D. N., 1143
Geric, B., 1143
Gerna, G., 269, 783
Gershon, A. A., 927

Gerstenberger, E., 634
Gessner, B. D., 537, 812
Gettayacamin, M., 1658
Ghiselli, R., 180
Ghosh, K., 155
Giacometti, A., 180
Giannini, C., 996
Giaquinto, C., 1718
Gibbons, R. S., 322
Gibbs, R. A., 1188
Gilbert, L. M., 1063
Gilbert, M., 547
Gilbey, A. M., 1296
Gilca, R., 54
Gioia, C., 1244
Githure, J. I., 1151
Giuliani, M., 1054
Gladwin, M. T., 1516
Glass, R. I., 413
Gobbi, G., 917
Goedert, J. J., 422, 1054
Goetghebuer, T., 1598
Gold, B. D., 537
Goldberg, A. C., 1394
Goldberg, C. L., 27
Goldfarb, R., 251
Goldman, D. L., 1178
Gomez, A. M., 1634
Gona, P., 302
Gonçalves, H. S., 1313
Gonnelli, A., 1219
Gonzalez, O. Y., 1188
Good, M. F., 1666
Gorsuch, T., 1437
Gosling, R. D., 1609
Gouagna, L. C., 1151
Goudsmit, J., 796
Graham, S. M., 872
Grandi, G., 241
Granoff, D. M., 821
Grant, C., 1557
Grau, G. E., 312, 380
Graviss, E. A., 121
Gray, R. H., 605
Green, J., 802
Green, S., 603
Greene, B., 698
Greenough, T. C., 685
Greinacher, A., 1275
Gretch, D. R., 672, 931, 1211
Griener, T. P., 1120
Griffin, M. R., 1536
Griffith, C., 1557
Griffiths, P. D., 912
Grosskurth, H., 458
Grubb, J. R., 1516
Gruber, W. C., 573
Grüner, A. C., 163
Gu, Q., 1037
Guan, Y., 1626
Guarner, J., 685
Gubareva, L. V., 760, 765
Guo, Q., 1643
Gutacker, M. M., 121
Haase, A. T., 703
Hackell, J. G., 573
Hadgu, A., 1335
Haeghebaert, S., 102
Haery, C., 251
Halder, G., 1014
Haley, M., 829
Hall, A. J., 1528
Hall, C. B., 1063
Halpenny, R., 45
Halsey, N. A., 1614
Halstead, S. B., 601
Hamelin, M.È., 1634
Hamilton, R., 1536
Hammitt, L. L., 1487
Hanchard, B., 277, 427
Handsfield, H. H., 333
Hanekom, W. A., 531
Hanlon, C. A., 796
Hannoun, L., 996
Hansudewechakul, R., 1504
Haque, A., 370
Hardison, J. L., 1584
Hargrove, J., 298
Harmsen, M. C., 1552
Harrington, R. D., 1211
Harris, N. S., 901
Harrison, L. H., 1266
Hartemann, P., 1333
Hartert, T. V., 1536
Hartgers, F. C., 146
Hartlein, M., 1164
Haslett, P. A. J., 1744
Havlir, D., 9
Hawkridge, A., 531
Hawn, T. R., 1693
Hay, C. M., 1223
Hayden, F. G., 760, 765
Hayes, N., 685
Hayes, R., 458
Hayes, R. J., 604
Heck, J. M., 387
Hecker, M., 1275
Hedges, S. R., 556
Heimer, R., 455
Heineman, T. C., 1350
Heinlein, A. C., 693
Heinzmann, A., 438
Hemwutthiphan, C., 1504
Hennessy, T. W., 1487
Henriques-Normark, B., 477
Hensley, L. E., 1650
Hepatitis C Antiviral Long-Term Treatment against Cirrhosis Trial Group, 931
Herold, B. C., 27
Hez-Deroubaix, S., 996
Hickie, I., 664
Higgins, S. B., 1536
Hill, H. A., 172
Hill, P. C., 1279
Hillier, S. L., 617
Hirata, K., 547
Hirsch, H. H., 80
Hirsch, M. S., 488
Hisada, M., 277, 427
Hittner, J. B., 1384
Hladik, F., 698
Ho, M.-F., 1666
Hocking, J., 693, 1478
Hodgson, A., 467
Hoft, D. F., 1607
Hogarty, K., 27
Hogg, R. S., 259
Hoggard, P., 442
Holte, S., 698
Holtfreter, B., 1275
Holtfreter, S., 1275
Holtzman, M. J., 396
Hook, E. W., III, 905
Hoover, D. R., 479, 1512
Hopkins, C. A., 336
Horejsh, D., 1244
Hornung, R. L., 849
Horowitz, R., 901
Horsburgh, M. J., 1098
Horvath, L. B., 1478
Hosmalin, A., 163
Hotez, P. J., 155
Hou, N.-J., 98
Houben, R., 1151
Houhamdi, L., 112
Houlgatte, R., 312
House, F. S., 387
Howard, O. M. Z., 1164
Hsieh, M.-Y., 98, 98
Hsu, C.-W., 1365
Hu, P. J., 1037
Huang, D. W., 1172
Huang, J.-F., 98
Huang, L.-M., 283
Huang, W.-L., 1258
Huang, X., 1427
Hua-Xiang Xia, H., 1037
Huber, V. C., 677
Hudelson, S. E., 479, 1512
Hughes, A., 905
Hughes, E. J., 531
Hughes, W., 302
Hugonnet, S., 458
Hui, D. S. C., 1244
Humphrey, J. H., 298, 860
Huntington, J. D., 1685
Hurlburt, D. A., 1487
Husmann, M., 1078
Hussell, T., 223
Hussey, G. D., 531
Hutchinson, A., 1054
Hutt, P., 1528
Ianni, B., 1394
Ikebe, T., 1677
Ikewaki, J., 68
Ikizler, M. R., 573
Ilef, D., 102
Iliff, P. J., 860
Innis, B. L., 1658
Ioannidis, J. P. A., 4
Ippolito, G., 1244
Iraqi, F. A., 312
Islam, M. J., 1029
Ison, M. G., 760, 765
Itagaki, T., 1229
Ivanov, A. P., 598
Iwakura, Y., 1419
Jabs, D. A., 1728
Jackson, J. B., 479
Jacob, K. C., 1630
Jacobs, B. C., 1471
Jacobson, R. M., 655
Jacobson, S., 427, 1557
Jahrling, P. B., 1650
Jain, S. K., 1287
Jairungsri, A., 1078
James Nokes, D., 59
Jankauskas, R., 112
Jansen, H. M., 214
Jarraud, S., 102
Jaworowski, A., 693
Jayaraman, G. C., 1361
Jeffries, D., 1528
Jeffries, D. J., 1279
Jeffs, L. B., 1650
Jensen, A. T. R., 1738
Jensen, B., 172
Ji, G., 1371
Jiang, Q., 1643
Jin, B., 563
John, M., 27
Johnson, L., 901
Johnson, M. A., 1437
Johnson, S., 607, 1143
Johnston, S. L., 404
Jolley, K. A., 1266
Jones, J. D., 607
Jones, M. R., 360
Jones, P. P., 1023
Jourdain, G., 1504
Judge, A., 1650
Kadota, J.-i., 68
Kaestli, M., 1567
Kagan, E., 1650
Kahan, M. C., 1120
Kaiser, K., 987
Kalil, J., 1394
Kamya, M., 971
Kamya, M. R., 9, 978
Kang, Y. J., 1023
Kanlaya, R., 1078
Kanno, T., 773
Kao, C.-L., 283
Kao, J.-H., 1258
Kapikian, A. Z., 898
Kaplan, G., 531, 1703, 1744
Kaplan, S. L., 754
Kaplan, S. S., 1384
Kaposi Sarcoma Genetics Working Group, 1054
Karalius, B. J., 1125
Karnchanamayul, W., 1504
Karron, R. A., 573, 1544
Kashima, K., 68
Kasinrerk, W., 1078
Kasowitz, A., 27
Katano, H., 773
Katongole-Mbidde, E., 1250
Katsahian, S., 741
Katsushima, N., 1229
Katubulushi, M., 1464
Kaul, R., 45
Kawamura, Y., 1677

Kawano, R., 68
Kawasaki Disease Research Group, 283
Kawata, S., 1371
Kaye, P. M., 205
Kazura, J. W., 1005
Keegan, B., 731
Kelleher, A. D., 505
Keller, C. C., 1384
Keller, M. J., 27
Kelly, P., 1464
Kelvin, D., 45
Kemble, G., 1350
Kendall, M. A., 488
Kent, C. K., 1336
Kew, O., 1341
Khabar, K. S. A., 802
Khalil, I. F., 1738
Khanna, R., 664
Kikuchi, H., 68
Kilbourne, E. D., 7
Killgore, G., 172
Kim, H. W., 1619
Kim, K. S., 1287
Kim, N., 277
Kimura, T., 1371
King, C. L., 1005
King, E. M., 505
King, J. C., 573
Kinkead, R., 1634
Kioko, J. M., 1005
Kirby, A. C., 205
Kirikae, T., 1677
Kironde, F., 971
Kitahata, M. M., 1211
Kitaoka, S., 1229
Kiwanuka, N., 605
Klausner, J. D., 1336
Kleeberger, S. R., 1544
Klein, M. I., 1544
Klein, N., 1350
Kliks, S., 601
Klotman, M. E., 27
Klugman, K. P., 1236
Knapp, S., 187
Kobbe, R., 1610
Kocianova, S., 841
Koelle, D. M., 698
Koga, M., 547
Kogan, M. S., 360
Kohler, C., 1275
Kohno, K., 68
Koike, S., 547
Kokai-Kun, J. F., 1098
Komoltri, C., 1078
Kon, O. M., 354
Kondé, M. K., 607
Kontoyiannis, D. P., 1014
Koo, B. C. A., 802
Koram, K. A., 467
Koratich, C., 1172
Kottilil, S., 1172
Kouanda, S., 607
Kovacs, A., 1202
Kovacs, C., 45
Kovacs, J. A., 1516
Kozel, T. R., 1589
Koziel, M. J., 931
Kramer, M., 146
Krantz, E., 672
Krathwohl, M. D., 494
Kreiswirth, B. N., 121, 1703
Kremsdorf, D., 996
Kremsner, P. G., 146, 1384
Krishnan, S., 879
Krohn, M., 617
Kron, M., 1164
Krows, M., 672
Krueger, M., 438
Kruif, J. d., 796
Kruszon-Moran, D., 172
Krzych, U., 146
Kublin, J. G., 1
Kuehnert, M. J., 172
Kuijf, M. L., 1471
Kullberg, B. J., 1419
Kumar, A., 251, 251, 1304
Kumwenda, N., 1512
Kumwenda, N. I., 479
Kurepina, N., 1703
Kuritzkes, D. R., 1743
Kurosawa, K., 698
Kuwanda, L., 1236
Kuzevska, I., 1478
Kuziel, W. A., 1584
La, V. D., 112
Laassri, M., 1344
Lacroix-Lamandé, S., 1400
Lai, M.-Y., 1258
Lai, S.-Y., 645
Lai, Y., 841
Lajoie, J., 298
Lakeman, F., 905
Lallemant, M., 1504
Lam, S. K., 1037
Lambert, P.-H., 1598
Lamichhane, G., 1287
Lamirande, E. W., 685
Lan, Y., 88
Landay, A., 1202
Lane, H. C., 1172
Lane, T. E., 1584
Langenbach, R., 1037
Laoprasopwattana, K., 603
La Russa, P., 927
Latour, C., 987
Lau, Y. L., 945
Laufer, M. K., 872
Laurent, F., 1400
Lauria, C., 1054
Lavenu, A., 1613
LaVoy, A., 1520
Law, H. K. W., 945
Lawson, C. L., 1451
Lawson, H. M., 912
Laza-Stanca, V., 404
Leblanc, E., 54
Lee, A. C. H., 1650
Lee, J., 698
Lee, L.-P., 98
Lee, S. A., 1160
Le-Hesran, J.-Y., 713
Leiriao, P., 164
Lemnge, M. M., 1738
Lempicki, R. A., 1172
Leong, H. N., 912
Lepidi, H., 1711
Leppla, S., 625
Leppla, S. H., 829
Leroy, V., 482
Lertmemongkolchai, G., 370
Levels, J. H. M., 214
Levy, V., 741
Lewis, M. G., 1441
Lewis, R. E., 1014
Li, G. Q., 1037
Li, H.-C., 277
Li, J., 547, 515
Li, Q., 703
Li, X., 605, 829
Li, Y., 829, 899, 88
Li, Y. T., 912
Liang, Y. J., 1037
Liang, Z., 88
Libraty, D. H., 603
Licci, A., 180
Lie, Y., 1512
Lifson, J. D., 703
Lillegard, J. B., 1589
Lilleri, D., 269
Lillibridge, K. M., 1188
Lim, M. L., 1742
Lin, C. C., 902
Lin, C.-C., 1365
Lin, C.-J., 1365
Lin, H. L., 1037
Lin, S.-M., 1365
Lin, Y.-C., 1089
Lin, Z.-Y., 98
Lincoln, D., 1566
Lindsay, K. L., 931
Ling, N., 88
Lingani, C., 607
Lintao, L. D., 387
Lionakis, M. S., 1014
Lipman, M. C. I., 1437
Lipsitch, M., 1296
Little, T., 1236
Liu, C.-J., 1258
Liu, H., 698
Liu, W., 792
Lloyd, A., 664
Lofthus, G. K., 1063
Long, C. A., 731
Lopez-Ribot, J. L., 1014
Lottenbach, K., 1344
Loughman, A., 1109
Lowy, F. D., 1109
Lu, J., 582
Ludewick, H., 1236
Luke, B., 1195
Lundkvist, Å., 971
Lunel, F., 996
Lupa, M. M., 360
Lusingu, J. P., 1738
Lutter, R., 214
Luty, A. J. F., 146
Lv, H., 792
Lyerly, D. M., 1143
Mabey, D., 458
MacDonald, K., 45
Machekano, R., 978
Macia, Y., 112
Mackay, I. M., 1630
MacLachlan, I., 1650
Madhi, S. A., 573, 1236
Mady, C., 1394
Magez, S., 1575
Mahomva, A. I., 860
Maiden, M. C. J., 1266
Mak, S., 1338
Makobongo, M. O., 731
Malaba, L. C., 860
Malasit, P., 1078
Malet, P. F., 931
Malhotra, I., 1005
Malkovsky, M., 1244, 1606
Maloney, E., 427
Maloney, E. M., 277
Mancassola, R., 1400
Manjarrez, R. C., 129
Mann, E. J., 721
Manning, J. E., 1584
Mansoor, N., 531
Marañón, C., 163
Marcato, P., 1120
Marcel, F., 102
Marchant, A., 1598
Marie, J.-P., 741
Marinda, E. T., 860
Marissen, W. E., 796
Marks, F., 1610
Marques, A. R., 849
Marrazzo, J. M., 617, 1475
Marsh, J. W., 1266
Marshall, V., 1054, 1250
Martin, B. K., 1728
Martin, P. J., 1619
Martin, R., 849
Martinez, J., 607
Martino, M. d., 1333
Maryland Emerging Infections Program, 1266
Maslin, C. L., 693
Masur, H., 1172, 1516
Mathema, B., 121
Mathieu, L., 1333
Mathisen, T. L., 1211
Matsuzaki, Y., 1229
May, J., 1610
Mayer, K. H., 36
Mayer, L. W., 607
Mazzulli, T., 45
Mbidde, E. K., 971
Mbisa, G., 1054, 1250
Mbizvo, M. T., 860
Mbulaiteye, S., 1250
Mbulaiteye, S. M., 422
McAdam, K. P. W. J., 1279
McAllister, S. K., 172
McBryde, E. S., 1473
McClintock, K., 1650
McCloskey, T. W., 879
McConkey, S. J., 1528

McCullers, J. A., 677, 751
McDermott, M. P., 1063
McDougal, L. K., 172
McDowell, P. W., 1098
McElrath, M. J., 698
McElwain, D. L. S., 1473
McKinney, J. D., 1703
McLaughlin, M., 1172
McNutt, L.-A., 455
McQueen, E., 1630
McQuillan, G., 172
Medical Research Council Gambia Twin Study Group,, The, 1598
Medin, C. L., 1070
Medley, G. F., 59
Medrano, F. J., 1332
Mège, J.-L., 380
Meghari, S., 380
Mehta, S., 16
Meiller, A., 987
Meintjes, G., 354
Mekalanos, J. J., 1029
Melendi, G. A., 1544
Mellor, A. L., 214
Menan, H., 482
Mendez, S., 155
Mendy, M., 1528
Menzo, S., 1219
Merlin, K. M., 505
Messina, A., 1054
Meyer, C. G., 1610
Meyn, L., 617
Micheloni, C., 917
Michon, F., 129
Miller, L. H., 731
Miller, R. F., 1437
Minton, P. A., 1536
Mirandola, P., 917
Mishin, V. P., 765
Mittra, P., 1304
Miyoshi-Akiyama, T., 1677
Mizgerd, J. P., 360
Mizuta, K., 1229
Moadel, T., 1427
Moayeri, M., 625, 829
Mocchegiani, F., 180
Modlin, J. F., 1614
Moet, F. J., 346
Mohamad, S. A. S., 1098
Mohamed, J. A., 231
Möller, U., 146
Monath, T. P., 1607
Mond, J. J., 1098
Mongkolsapaya, J., 1078
Monroe, S. S., 413
Montaner, J. S. G., 259
Montes-Cano, M. A., 1332
Moore, D., 259
Moran, A., 1188
Morgenstern, A., 1427
Morishima, C., 672, 931
Morosan, S., 996
Morris, M. B., 1478
Mortara, R. A., 1313
Morton, A. N., 1478
Mosha, F., 458
Moss, L. M., 336, 1478
Moss, N. J., 1336
Mota, M. M., 164
Moulton, L. H., 860
Muchiri, E., 1005
Mueller, J. E., 812
Müller, N. G., 1394
Mulvey, G. L., 1120
Mungai, P. L., 1005
Munson, P. J., 849
Muramatsu, M., 1371
Murphy, B. R., 573
Murray, B. E., 231
Murray, P. J., 617
Murray, R. A., 531
Musher, D. M., 477
Musser, J. M., 121
Mutasa, K., 860
Muth, P. T., 537
Mzengeza, F., 860
Nacheva, E. P., 912
Nachman, S. A., 302
Nagai, Y., 1229
Naim, E., 693
Naipospos, T. S. P., 1626
Nair, G. B., 1029
Naka, Y., 1109
Nalin, D. R., 331
Nallaparedddy, S. R., 231
Natanson, C., 634
Nathoo, K. J., 860
Nazzal, D., 136
Ndugwa, C. M., 422, 1250
Nègre-Salvayre, A., 136
Nelson, D., 129
Netea, M. G., 1419
Nettles, R. E., 1611
Newell, M.-L., 1050, 1188
Newman, F. K., 1607
Newport, M. J., 1598
Newton, S. M., 354
Ng, I. H. Y., 945
Ng, J., 277
Ng, M. H., 1643
Ngama, M., 59
Ngampiyaskul, C., 1504
N'Go-Giang-Huong, N., 1047
Ngo-Giang-Huong, N., 1504
Nguyen, C., 312
Nhu Nguyen, T. M., 102
Nichols, R. A., 927
Nichols, W. G., 1619
Niekerk, N. v., 1236
Niesters, H. G. M., 1471
Niezgoda, M., 796
Nijhuis, M., 214
Nisalak, A., 1658
Nishimura, H., 1229
Nissen, M. D., 1630
Njanpop-Lafourcade, B.-M., 812
Noisakran, S., 1078
Novalli, L., 1544
Nowicki, M., 1202
Nsobya, S. L., 9, 978, 1160
Ntozini, R., 860
Nutman, T. B., 196
Obasi, A., 458
O'Brien, S. J., 16
Ochola, R., 59
Oduro, A. R., 467
O'Garra, A., 370
Ogata, M., 68
Oh, U., 1557
Ohtsuka, E., 68
Okiro, E. A., 59
O'Leary, M., 1266
Oleksyk, T., 16
Olive, C., 1666
Omar, S. A., 1151
Opal, S. M., 251
Ord, R., 1151
Orlando, F., 180
Orroth, K., 458
O'Shea, A., 573
Oskam, L., 346
Osman, J., 251
O'Sullivan, M. J., 1195
Ota, M. O. C., 1598
Otero, M., 1441
Otto, M., 841
Otu, J. K., 1279
Ouellette, M., 1375
Ouma, J. H., 1005
Ovsyannikova, I. G., 655
Owor, A. M., 422, 1250
Pahan, D., 346
Pahwa, R., 879
Pahwa, S., 879
Paladugu, B., 251
Pankratz, V. S., 655
Pantosti, A., 1189
Papi, A., 404
Parkin, N., 1512
Parkinson, A. J., 537
Parrillo, J. E., 251
Pass, R. F., 788
Pasvol, G., 354
Pattanakitsakul, S.-n., 1078
Patterson-Bartlett, J., 488
Paukovics, G., 693
Paul-Satyaseela, M., 1287
Pauly, D., 1333
Peacock, S. J., 1098
Pediatric AIDS Clinical Trials Group 1008 Team, 302
Peebles, R. S., 1536
Peiris, J. S. M., 945, 1626
Pembrey, L., 1050, 1188
Pena, H. G., 1544
Peng, J. Z., 1037
Peng, M., 88
Pepys, M. B., 1120
Perdreau-Remington, F., 1495
Pereira, M. S. F., 1313
Perinatal HIV Prevention Trial Group, 1504
Perkins, D. J., 1384
Peterson, J. W., 331
Petric, M., 899
Petropoulos, C. J., 1512
Peyron, F., 987
Peytavin, G., 482
Phelps, J. R., 1650
Phillips, S. E., 901
Pialoux, G., 748
Picker, L. J., 703
Picot, S., 987
Pihlgren, M., 1598
Piwowar-Manning, E., 479
Platt, E., 380
Plikaytis, B. D., 607
Plotkin, S., 1344
Plotkin, S. A., 754
Plowe, C. V., 872
Poccia, F., 1244, 1606
Polack, F. P., 1544
Poland, G. A., 655
Polis, M. A., 1172
Poll, T. v. d., 522
Polsky, B., 488
Polyak, S. J., 802, 931
Popovic, T., 607
Post, F. A., 1703
Potter, M. N., 912
Poulsom, R., 1464
Pourbohloul, B., 1338
Preiksaitis, J. K., 1361
Prichard, M., 1350
Prince, G. A., 1634
Profy, A. T., 27
Puchhammer-Stöckl, E., 1472
Pujades, M., 458
Punyadee, N., 1078
Purcell, R., 625
Puro, V., 1048
Puthier, D., 312
Puthothu, B., 438
Putnak, J. R., 1658
Puttikhunt, C., 1078
Puzelli, S., 900
Qing, Y., 88
Qiu, Q., 563
Quinlivan, M. A., 927
Quinn, T. C., 605
Quinti, I., 1189
Quinto, J. D., 387
Quinton, L. J., 360
Raab-Traub, N., 287
Rabbani, G. H., 331
Radwanska, M., 1575
Raghunathan, P. L., 607
Ramasawmy, R., 1394
Ramirez, B. L., 1164
Rampon, O., 1718
Randolph, V. B., 573
Ranque, S., 474
Raoult, D., 112, 380, 474, 1711
Rappuoli, R., 241
Ray, R., 931
Rayco-Solon, P., 1528
Rayner, J. M., 1626
Raynes, J. G., 205
Read, J., 302
Read, R. C., 1098
Read, T. R. H., 336
Reasonover, A., 1487
Rebbapragada, A., 45

Rehm, C. A., 1172
Reilly, C., 703
Rekart, M. L., 1338
Remoué, F., 748
Ren, H., 88
Renckens, R., 187, 522
Rénia, L., 163
Renia, L., 996
Rennels, M., 1344
Respaldiza, N., 1332
Ress, S. R., 531
Revello, M. G., 269, 783
Revskaya, E., 1427
Reynolds, M. R., 703
Rice, A. B., 796
Richardus, J. H., 346
Rickinson, A. B., 287
Ricks, M. O., 1728
Rihet, P., 312
Rinaldi, L., 917
Rinaldo, C. R., 698
Rio, B., 741
Rios, M., 427
Ritoux, S., 1333
Riveau, G., 748
Roan, N. R., 1459
Robbins, J. B., 515
Roberts, A., 685
Robine, E., 1333
Robinson, T. M., 1441
Rodriguez, A., 164
Roelofs, J. J. T. H., 187, 522
Roger, M., 298
Rogers, A. B., 1125
Rogers, W. O., 467
Rogerson, S. J., 721
Rojas, R., 1375
Rolain, J.-M., 380
Romano, L., 1219
Rønn, A. M., 1738
Rooijen, N. V., 996
Roschack, K., 1275
Roselino, A. M., 1313
Rosenstein, N., 607
Rosenthal, P. J., 9, 978, 1160
Ross, D., 458
Rossi, A. D., 1718
Rothman, A. L., 603, 931, 1070
Rothman, K. J., 898
Rouet, F., 482
Rouil, L., 102
Rouzioux, C., 482, 1047
Rovery, C., 474
Rowe, J. A., 1567
Roy, S., 287
Rüden, H., 1408
Ruff, A. J., 860
Rupnik, M., 1143
Rupprecht, C. E., 796
Ryan, C. E., 693
Saba, V., 180
Sabharwal, H., 129
Sabin, C. A., 1120
Sack, D. A., 331, 1029
Sack, R. B., 1029
Saito, T., 1371
Sakamoto, M., 1229
Salanti, A., 713
Sales, S. D., 442
Sambol, S. P., 1143
Sande, M. A. B. v. d., 1528
Sangaré, L., 607, 812
Sanou, I., 607
Santi, I., 241
Sanza, L. T., 1266
Saravia, N. G., 1375
Sarkar, A., 129
Sasson, S. C., 505
Sata, T., 773
Sato, Y., 773
Satou, T., 68
Sauerwein, R., 996
Sauerwein, R. W., 1151
Saville, S. P., 1014
Scalise, G., 180
Schacht, A.-M., 748
Schacker, T., 703
Schacker, T. W., 494
Schaffner, W., 169
Schaid, D., 16
Schauer, D. B., 1125
Scheckelhoff, M. R., 888
Schellenberg, D. M., 1609
Schiatti, M. P., 1544
Schiff, G. M., 1223
Schlegel-Hauter, S. E., 1598
Schleiss, M., 1350
Schmink, S., 607
Schnabel, K. C., 1063
Schneider, P., 1151
Schnittman, S., 1611
Schuck, P., 625
Schuring, R. P., 346
Schwebke, J. R., 556
Scott, P. D., 59
Scott, S., 166
Sebrell, A., 625
Ségui, B., 136
Seligman, S. J., 1187
Sensabaugh, G. F., 1495
Serra, M. E., 1544
Serraino, D., 1054
Serwadda, D., 605
Sewankambo, N., 605
Shaefer, M. S., 1742
Shahabi, K., 45
Shao, X., 1178
Sharma, Y. D., 1304
Sharp, M. A., 1350
Shashkina, E., 121
She, D., 1223
Sheen, I.-S., 1365
Shelton, C. E., 1109
Sherman, K. E., 1172
Sheth, P. M., 45
Sheung, A., 45
Shih, J. W.-K., 563
Shiloach, Y., 515
Shintani, A. K., 1536
Shoji, M., 1229
Shrestha, S., 16
Shuhart, M. C., 1211
Shutt, K. A., 1266
Sidibe, K., 607
Siegrist, C.-A., 1598
Signoli, M., 112
Silva, J. S., 1313
Silvestri, C., 180
Silvie, O., 163
Sim, R. B., 1589
Simms, B. T., 360
Simonsen, L., 898
Singh, N., 1304
Sitki-Green, D., 287
Sittisombut, N., 1078
Sizemore, J. M., Jr., 905
Skerrett, S. J., 1693
Sklar, P. A., 1516
Skowronski, D. M., 899
Sloots, T. P., 1630
Small, P. M., 1279
Smith, C. J., 1437
Smith, D., 370
Smith, D. E., 505
Smith, G. J. D., 1626
Smith, K. D., 1693
Smith, M. W., 16
Smith, P. V., 901
Snounou, G., 163
So, H. L., 1037
Soini, H., 121
Solenghi, E., 917
Soler, J., 531
Solomon, S. B., 634
Sondey, M., 1451
Sonza, S., 693
Soriani, M., 241
Soriano-Gabarró, M., 607
Sow, S., 713
Spaete, R. R., 387, 1350
Spector, S. A., 302
Spellberg, B., 1047
Sponzilli, I., 917
St. Claire, M., 625
Staalsoe, T., 1738
Stanciu, L. A., 404
Stanley, K. K., 505
Stanton, C., 1520
Stapleton, J. T., 451
Stapleton, M. R., 1098
Starnbach, M. N., 1459
Stebbing, J., 1051
Steele, L. N., 1459
Steiger, J., 80
Steinberg, S. P., 927
Steininger, C., 1472
Steketee, R. W., 1
Stevens, D. A., 1023
Stevens, D. L., 1685
Storch, G. A., 396
Strathdee, S. A., 16
Strbo, N., 879
Stricker, R. B., 901
Sturdevant, D. E., 841
Suarez, R. S. R., 129
Subbarao, K., 685
Sugauchi, F., 563
Sullivan, D. G., 672, 931, 1211
Sullivan, J. L., 685
Sumino, K. C., 396
Sun, W., 1658
Sung, J. J. Y., 1244
Sutherland, C. J., 1151
Svitel, J., 625
Swaden, L., 1437
Symeoneides, S., 251
Szu, S. C., 515
Tabrizi, S. N., 336
Taddei, A., 241
Taha, T. E., 479, 1512
Taiberg, L., 251
Takahashi, M., 547
Takenouchi, N., 1557
Talaat, K. R., 196
Talbot, T. R., 169
Talisuna, A., 978, 1160
Tam, T., 899
Tang, F., 792
Tangthawornchaikul, N., 1078
Tarnagda, Z., 812
Tarwater, P. M., 963
Taylor, R. J., 898
Taylor, T. E., 872
Telenti, A., 4, 1612
Telford, J. L., 241
Teng, F., 231
Tennent, G. A., 1120
Tenover, F. C., 172
Texier, A., 987
The, T. H., 1552
Theander, T., 713
Theander, T. G., 1738
Therville, N., 136
Thesing, P. C., 872
Thiemmeca, S., 1078
Thomas, S. J., 1658
Thomas, W. D., 685
Thomassen, L. V., 1211
Thompson, C. M., 1296
Thomsen, M., 136
Thorkildson, P., 1589
Thumba, F., 872
Tiendrebéogo, S. R. M., 607
Tierney, C., 488
Tierney, R. J., 287
Tilley, D., 45
Tilley, P. A. G., 1361
Timm, J., 1703
Tisch, D., 1005
Titball, R. W., 370
Todd, J., 458
Tollefson, S. J., 387
Tonwe-Gold, B., 482
Torres, M., 1427
Tostmann, A., 1151
Toth, I., 1666
Toure, H., 482
Tovo, P.-A., 1050, 1188
Traoré, Y., 812
Treanor, J., 760
Treanor, J. J., 573, 1223
Tremblay, M., 54
Trenholme, G., 251
Trzciński, K., 1296

Tsao, E. H. F., 912
Tsao, M.-L., 1089
Tseng, I.-C., 1089
Tucker, J. D., 902
Tuikue Ndam, N. G., 713
Tuncbilek, S., 941
Tuomala, R. E., 1191
Turner, L., 713
Tweardy, D. J., 1188
Tweed, S. A., 899
Uchiyama, T., 1677
Uematsu, S., 1400
Uitz, C., 129
Uusküla, A., 455
Vachon, M.-L., 54
Valderrama, L., 1375
Valderrama, M., 1375
Valenzuela, J. G., 155
van der Meer, J. W. M., 1419
van der Poll, T., 187
van der Sluijs, K. F., 214
van Doorn, P. A., 1471
van Krieken, J. H., 1419
van Oosterhout, J. J. G., 872
Van Rooijen, N., 370
Varela, J. M., 1332
Varmaz, D., 451
Varona, M. X., 1375
Vasanawathana, S., 1078
Vaughn, D. W., 1658
Vekhoff, A., 741
Venarske, D. L., 1536
Verschuuren, E. A. M., 1552
Vestergaard, L. S., 1738
Viboud, C., 898
Vierkant, R. A., 655
Viho, I., 482
Villaruz, A. E., 841
Vinayak, S., 1304
Vitale, F., 1054
Vitale, M., 917
Viteri-Jackson, A., 129
Vlahov, D., 16
Voelker, T., 963
Voell, J., 1516
Vogel, L., 685
Vonk, A. G., 1419
Voris, J., 1202
Vrtis, R., 1536
Vu, D. M., 821
Vuong, C., 841
Wahlgren, M., 971
Waight, P., 1528
Wainwright, H. C., 1703
Wakefield, D., 664
Wald, A., 698
Walker, S., 1718
Wallenstein, S., 27
Walls, L., 1323
Walters, M., 422
Walther, G. B., 1703
Wamachi, A. N., 1005
Wang, C., 698
Wang, C. C., 672
Wang, C.-D., 1250
Wang, C. K., 387
Wang, F., 1643
Wang, J. D., 1037
Wang, J.-T., 645
Wang, L.-Y., 98
Wang, P., 1626
Wang, R. Y.-H., 563
Wang, Z., 1350
Wara, D., 302
Ward, B. J., 298, 860
Warhurst, D. C., 1738
Watanabe, H., 1677
Waters, C., 1323
Watkins, D. I., 703
Wawer, M. J., 605
Webster, R. G., 1626
Weerawatgoompa, S., 1504
Wei, G., 413
Weinberg, A., 302, 488
Weinberg, J. B., 1384
Weiner, D. B., 1441
Weiss, H. A., 1598
Weisshaar, E., 1536
Weldon, W. C., 796
Welsch, J. A., 821
Whitby, D., 422, 1054, 1250
White, R., 1338
White, R. G., 604
Whitley, R., 905
Whittle, H., 1598
Whittle, H. C., 1528
Widdowson, M.-A., 413
Wiesenfeld, H. C., 617
Wietgrefe, S., 703
Wilkinson, K. A., 354
Wilkinson, R. J., 354
Wilks, R., 427
Williams, A. E., 223
Williams, B. R. G., 802
Williams, J. V., 387
Wishnok, J. S., 1125
Wolff, M., 1223
Wong, B. C.-Y., 1037
Wong, S., 582
Wozniak, M. A., 442
Wright, D., 1202
Wright, P. F., 387, 573
Wu, L., 1172
Wu, M., 1135
Wu, M.-H., 283
Wu, W., 155
Xia, N., 1643
Xin, Z.-T., 792
Xu, H., 88
Yakub, I., 1188
Yamano, Y., 427
Yan, L., 1350
Yan, Q., 1350
Yang, C.-F., 387
Yang, H.-C., 283
Yang, J., 1172
Yao, K., 427
Yao, Q.-Y., 287
Yao, Y., 841
Yaro, S., 812
Yawetz, S., 1191
Yazdanpanah, Y., 1048
Yearley, J., 1520
Yeh, C.-T., 1089, 1365
Yeka, A., 9, 978, 1160
Yenchitsomanus, P.-t., 1078
Yip, B., 259
Yixuan, S., 1371
Yogev, R., 302
Yoshimura, M., 1371
Young-Xu, Y., 898
Yu, E. Z., 1650
Yu, F., 625
Yu, M.-L., 98
Yuen, K.-Y., 1626
Yuki, N., 547
Yuthavisuthi, P., 1504
Zabriskie, J. B., 129
Zaki, S., 685
Zala, C., 259
Zambon, M., 900
Zanchetta, M., 1718
Zanetti, G., 505
Zaunders, J. J., 505
Zavattoni, M., 269, 783
Zazzi, M., 1219
Zerhouni-Layachi, B., 27
Zhan, L., 792
Zhang, J., 1626, 1643
Zhang, P.-H., 792
Zhang, T., 1427
Zheng, Y., 1643
Zhi, N., 582
Zhou, J., 945
Zhou, Y.-H., 625
Zhu, T., 698
Zhu, Y., 573
Zijenah, L. S., 298, 860
Zijlstra, E. E., 872
Zmirou-Navier, D., 1333
Zong, J.-C., 788
Zulu, I., 1464
Zunguza, C. D., 860
Zuno-Mitchell, P., 821
Zvandasara, P., 860
ZVITAMBO Study Group, 860

The Journal of Infectious Diseases

Volume 193 • Number 1 1 January 2006

EDITORIAL COMMENTARIES

1 **HIV Infection and Malaria—Understanding the Interactions**
James G. Kublin and Richard W. Steketee

4 **Susceptibility to HIV Infection—Disentangling Host Genetics and Host Behavior**
Amalio Telenti and John P. A. Ioannidis

7 **Influenza Immunity: New Insights from Old Studies**
Edwin D. Kilbourne

MAJOR ARTICLES AND BRIEF REPORTS

HIV/AIDS

9 **Effect of HIV-1 Infection on Antimalarial Treatment Outcomes in Uganda: A Population-Based Study**
Moses R. Kamya, Anne F. Gasasira, Adoke Yeka, Nathan Bakyaita, Samuel L. Nsobya, Damon Francis, Philip J. Rosenthal, Grant Dorsey, and Diane Havlir

16 **Behavioral Risk Exposure and Host Genetics of Susceptibility to HIV-1 Infection**
Sadeep Shrestha, Steffanie A. Strathdee, Noya Galai, Taras Oleksyk, M. Daniele Fallin, Shruti Mehta, Daniel Schaid, David Vlahov, Stephen J. O'Brien, and Michael W. Smith

27 **PRO 2000 Gel Inhibits HIV and Herpes Simplex Virus Infection Following Vaginal Application: A Double-Blind Placebo-Controlled Trial**
Marla J. Keller, Bouchra Zerhouni-Layachi, Natalia Cheshenko, Minnie John, Kathleen Hogarty, Andrea Kasowitz, Cindy L. Goldberg, Sylvan Wallenstein, Albert T. Profy, Mary E. Klotman, and Betsy C. Herold

36 **Microbicides to Prevent HIV Transmission: Overcoming Obstacles to Chemical Barrier Protection**
Darpun Dhawan and Kenneth H. Mayer

45 **Disproportionately High Semen Shedding of HIV Is Associated with Compartmentalized Cytomegalovirus Reactivation**
Prameet M. Sheth, Ali Danesh, Anthony Sheung, Anuradha Rebbapragada, Kamnoosh Shahabi, Colin Kovacs, Roberta Halpenny, David Tilley, Tony Mazzulli, Kelly MacDonald, David Kelvin, and Rupert Kaul

VIRUSES

49 **Prior H1N1 Influenza Infection and Susceptibility of Cleveland Family Study Participants during the H2N2 Pandemic of 1957: An Experiment of Nature**
Suzanne L. Epstein

54 **Distribution and Clinical Impact of Human Respiratory Syncytial Virus Genotypes in Hospitalized Children over 2 Winter Seasons**
Rodica Gilca, Gaston De Serres, Mireille Tremblay, Marie-Louise Vachon, Eric Leblanc, Michel G. Bergeron, Pierre Déry, and Guy Boivin

59 **Molecular Analysis of Respiratory Syncytial Virus Reinfections in Infants from Coastal Kenya**
Paul D. Scott, Rachel Ochola, Mwanajuma Ngama, Emelda A. Okiro, D. James Nokes, Graham F. Medley, and Patricia A. Cane

68 **Human Herpesvirus 6 DNA in Plasma after Allogeneic Stem Cell Transplantation: Incidence and Clinical Significance**
Masao Ogata, Hiroshi Kikuchi, Takako Satou, Rie Kawano, Junji Ikewaki, Kazuhiro Kohno, Kenji Kashima, Eiichi Ohtsuka, and Jun-ichi Kadota

80 **Rapid Dynamics of Polyomavirus Type BK in Renal Transplant Recipients**
Georg A. Funk, Jürg Steiger, and Hans H. Hirsch

88 **A Quasi Species of the pre-S/S Gene and Mutations of Enhancer II/Core Promoter/pre-C in Mothers and Their Children Infected with Hepatitis B Virus via Mother-to-Infant Transmission**
Hongmei Xu, Mingli Peng, Yuling Qing, Ning Ling, Yinghua Lan, Zengwei Liang, Dachuan Cai, Yongguo Li, and Hong Ren

98 **Tumor Necrosis Factor–α Promoter Polymorphism at Position −308 Predicts Response to Combination Therapy in Hepatitis C Virus Infection**
Chia-Yen Dai, Wan-Long Chuang, Wen-Yu Chang, Shinn-Cherng Chen, Li-Po Lee, Ming-Yen Hsieh, Nai-Jen Hou, Zu-Yau Lin, Jee-Fu Huang, Ming-Yuh Hsieh, Liang-Yen Wang, and Ming-Lung Yu

BACTERIA

102 **A Community-Wide Outbreak of Legionnaires Disease Linked to Industrial Cooling Towers—How Far Can Contaminated Aerosols Spread?**
Tran Minh Nhu Nguyen, Daniele Ilef, Sophie Jarraud, Laurence Rouil, Christine Campese, Didier Che, Sylvie Haeghebaert, François Ganiayre, Frederic Marcel, Jerome Etienne, and Jean-Claude Desenclos

112 **Evidence for Louse-Transmitted Diseases in Soldiers of Napoleon's Grand Army in Vilnius**
Didier Raoult, Olivier Dutour, Linda Houhamdi, Rimantas Jankauskas, Pierre-Edouard Fournier, Yann Ardagna, Michel Drancourt, Michel Signoli, Vu Dang La, Yves Macia, and Gérard Aboudharam

121 **Single-Nucleotide Polymorphism–Based Population Genetic Analysis of *Mycobacterium tuberculosis* Strains from 4 Geographic Sites**
Michaela M. Gutacker, Barun Mathema, Hanna Soini, Elena Shashkina, Barry N. Kreiswirth, Edward A. Graviss, and James M. Musser

129 **Group A Streptococcus (GAS) Carbohydrate as an Immunogen for Protection against GAS Infection**
Hemant Sabharwal, Francis Michon, Daniel Nelson, Wenling Dong, Kathleen Fuchs, Roberto Carreño Manjarrez, Arun Sarkar, Catherine Uitz, Ann Viteri-Jackson, Romeo S. Rodriguez Suarez, Milan Blake, and John B. Zabriskie

136 ***Chlamydia pneumoniae* Alters Mildly Oxidized Low-Density Lipoprotein–Induced Cell Death in Human Endothelial Cells, Leading to Necrosis Rather Than Apoptosis**
Dani Nazzal, Anne-Valérie Cantéro, Nicole Therville, Bruno Ségui, Anne Nègre-Salvayre, Mogens Thomsen, and Hervé Benoist

PARASITES

146 **Reduced Cord Blood Immune Effector-Cell Responsiveness Mediated by $CD4^+$ Cells Induced in Utero as a Consequence of Placental *Plasmodium falciparum* Infection**
Kim Brustoski, Ulrike Möller, Martin Kramer, Franca C. Hartgers, Peter G. Kremsner, Urszula Krzych, and Adrian J. F. Luty

155 **The Impact of Concurrent and Treated *Ancylostoma ceylanicum* Hookworm Infections on the Immunogenicity of a Recombinant Hookworm Vaccine in Hamsters**
Kashinath Ghosh, Wenhui Wu, Adrienne D. Antoine, Maria Elena Bottazzi, Jesus G. Valenzuela, Peter J. Hotez, and Susana Mendez

CORRESPONDENCE

163 **Do Apoptotic *Plasmodium*-Infected Hepatocytes Initiate Protective Immune Responses?**
Laurent Rénia, Conception Marañón, Anne Hosmalin, Anne Charlotte Grüner, Olivier Silvie, and Georges Snounou

164 **Reply to Rénia et al.**
Patricia Leiriao, Maria Manuel Mota, and Ana Rodriguez

165 **Rural Kenya: Measles during Pregnancy and Early Infancy**
Subhash C. Arya and Nirmala Agarwal

166 **Reply to Arya and Agarwal**
Susana Scott and Felicity Cutts

ERRATUM

168 **Mackay et al. (2004; 190:1913–8)**

Instructions for Authors

Volume 193 • Number 2 15 January 2006

EDITORIAL COMMENTARY

169 **Community-Associated Methicillin-Resistant *Staphylococcus aureus:* The Way to the Wound Is through the Nose**
Clarence Buddy Creech II, Thomas R. Talbot, and William Schaffner

MAJOR ARTICLES AND BRIEF REPORTS

BACTERIA

172 **Prevalence of *Staphylococcus aureus* Nasal Colonization in the United States, 2001–2002**
Matthew J. Kuehnert, Deanna Kruszon-Moran, Holly A. Hill, Geraldine McQuillan, Sigrid K. McAllister, Gregory Fosheim, Linda K. McDougal, Jasmine Chaitram, Bette Jensen, Scott K. Fridkin, George Killgore, and Fred C. Tenover

180 **RNAIII-Inhibiting Peptide Significantly Reduces Bacterial Load and Enhances the Effect of Antibiotics in the Treatment of Central Venous Catheter–Associated *Staphylococcus aureus* Infections**
Oscar Cirioni, Andrea Giacometti, Roberto Ghiselli, Giorgio Dell'Acqua, Fiorenza Orlando, Federico Mocchegiani, Carmela Silvestri, Alberto Licci, Vittorio Saba, Giorgio Scalise, and Naomi Balaban

187 **The Acute-Phase Response and Serum Amyloid A Inhibit the Inflammatory Response to *Acinetobacter baumannii* Pneumonia**
Rosemarijn Renckens, Joris J. T. H. Roelofs, Sylvia Knapp, Alex F. de Vos, Sandrine Florquin, and Tom van der Poll

196 **Preexposure to Live *Brugia malayi* Microfilariae Alters the Innate Response of Human Dendritic Cells to *Mycobacterium tuberculosis***
Kawsar R. Talaat, Rachael E. Bonawitz, Pilar Domenech, and Thomas B. Nutman

205 **CD11b Regulates Recruitment of Alveolar Macrophages but Not Pulmonary Dendritic Cells after Pneumococcal Challenge**
Alun C. Kirby, John G. Raynes, and Paul M. Kaye

214 **Influenza-Induced Expression of Indoleamine 2,3-Dioxygenase Enhances Interleukin-10 Production and Bacterial Outgrowth during Secondary Pneumococcal Pneumonia**
Koenraad F. van der Sluijs, Monique Nijhuis, Johannes H. M. Levels, Sandrine Florquin, Andrew L. Mellor, Henk M. Jansen, Tom van der Poll, and René Lutter

223 **Colonic Bacterial Infection Abrogates Eosinophilic Pulmonary Disease**
Andrew E. Williams, Lorna Edwards, and Tracy Hussell

231 **Pleiotrophic Effects of 2 *Enterococcus faecalis sagA*–Like Genes, *salA* and *salB*, Which Encode Proteins That Are Antigenic during Human Infection, on Biofilm Formation and Binding to Collagen Type I and Fibronectin**
Jamal A. Mohamed, Fang Teng, Sreedhar R. Nallapareddy, and Barbara E. Murray

241 **Group B *Streptococcus* Crosses Human Epithelial Cells by a Paracellular Route**
Marco Soriani, Isabella Santi, Annarita Taddei, Rino Rappuoli, Guido Grandi, and John L. Telford

251 **The Duration of Hypotension before the Initiation of Antibiotic Treatment Is a Critical Determinant of Survival in a Murine Model of *Escherichia coli* Septic Shock: Association with Serum Lactate and Inflammatory Cytokine Levels**
Anand Kumar, Cameron Haery, Bhanu Paladugu, Aseem Kumar, Simon Symeoneides, Leo Taiberg, Jailan Osman, Gordon Trenholme, Steven M. Opal, Roy Goldfarb, and Joseph E. Parrillo

VIRUSES

259 **Immunologic Response to Antiretroviral Therapy in Hepatitis C Virus–Coinfected Adults in a Population-Based HIV/AIDS Treatment Program**
Paula Braitstein, Carlos Zala, Benita Yip, Martin W. G. Brinkhof, David Moore, Robert S. Hogg, and Julio S. G. Montaner

269 **Lymphoproliferative Response in Primary Human Cytomegalovirus (HCMV) Infection Is Delayed in HCMV Transmitter Mothers**
Maria Grazia Revello, Daniele Lilleri, Maurizio Zavattoni, Milena Furione, Emilia Genini, Giuditta Comolli, and Giuseppe Gerna

277 **Human Leukocyte Antigen Concordance and the Transmission Risk via Breast-Feeding of Human T Cell Lymphotropic Virus Type I**
Robert J. Biggar, Jennifer Ng, Norma Kim, Michie Hisada, Hong-Chuan Li, Beverley Cranston, Barrie Hanchard, and Elizabeth M. Maloney

283 **Lack of Association between Infection with a Novel Human Coronavirus (HCoV), HCoV-NH, and Kawasaki Disease in Taiwan**
Luan-Yin Chang, Bor-Luen Chiang, Chuan-Liang Kao, Mei-Hwan Wu, Pei-Jer Chen, Ben Berkhout, Hui-Ching Yang, and Li-Min Huang, for the Kawasaki Disease Research Group

287 **Multiple Epstein-Barr Virus Strains in Patients with Infectious Mononucleosis: Comparison of Ex Vivo Samples with In Vitro Isolates by Use of Heteroduplex Tracking Assays**
Rosemary J. Tierney, Rachel Hood Edwards, Diane Sitki-Green, Deborah Croom-Carter, Sushmita Roy, Qing-Yun Yao, Nancy Raab-Traub, and Alan B. Rickinson

HIV/AIDS

298 **Genetic Variants in Nonclassical Major Histocompatibility Complex Class I Human Leukocyte Antigen (HLA)–E and HLA-G Molecules Are Associated with Susceptibility to Heterosexual Acquisition of HIV-1**
Julie Lajoie, John Hargrove, Lynn S. Zijenah, Jean H. Humphrey, Brian J. Ward, and Michel Roger

302 **Antibody Responses to Hepatitis A Virus Vaccine in HIV-Infected Children with Evidence of Immunologic Reconstitution while Receiving Highly Active Antiretroviral Therapy**
Adriana Weinberg, Philimon Gona, Sharon A. Nachman, Patricia Defechereux, Ram Yogev, Walter Hughes, Diane Wara, Steven A. Spector, Jennifer Read, Carol Elgie, Marlene Cooper, Wayne Dankner, and the Pediatric AIDS Clinical Trials Group 1008 Team

PARASITES

312 **Gene-Expression Profiling Discriminates between Cerebral Malaria (CM)–Susceptible Mice and CM-Resistant Mice**
Nicolas F. Delahaye, Nicolas Coltel, Denis Puthier, Laurence Flori, Rémi Houlgatte, Fuad A. Iraqi, Catherine Nguyen, Georges E. Grau, and Pascal Rihet

FUNGI

322 **T Cells Require Tumor Necrosis Factor–α to Provide Protective Immunity in Mice Infected with *Histoplasma capsulatum***
George S. Deepe, Jr., and Reta S. Gibbons

CORRESPONDENCE

331 **Oral Therapy for Cholera: Amino Acids Added to Electrolyte Solutions Containing Rice or Glucose**
David R. Nalin and Richard A. Cash

331 **Reply to Nalin and Cash**
G. H. Rabbani, David A. Sack, and J. W. Peterson

Volume 193 • Number 3 1 February 2006

EDITORIAL COMMENTARY

333 **Nongonococcal Urethritis: A Few Answers but Mostly Questions**
H. Hunter Handsfield

MAJOR ARTICLES AND BRIEF REPORTS

BACTERIA

336 **Etiologies of Nongonococcal Urethritis: Bacteria, Viruses, and the Association with Orogenital Exposure**
Catriona S. Bradshaw, Sepehr N. Tabrizi, Timothy R. H. Read, Suzanne M. Garland, Carol A. Hopkins, Lorna M. Moss, and Christopher K. Fairley

346 **Physical Distance, Genetic Relationship, Age, and Leprosy Classification Are Independent Risk Factors for Leprosy in Contacts of Patients with Leprosy**
F. Johannes Moet, David Pahan, Ron P. Schuring, Linda Oskam, and Jan H. Richardus

354 **Effect of Treatment of Latent Tuberculosis Infection on the T Cell Response to *Mycobacterium tuberculosis* Antigens**
Katalin A. Wilkinson, Onn M. Kon, Sandra M. Newton, Graeme Meintjes, Robert N. Davidson, Geoffrey Pasvol, and Robert J. Wilkinson

360 **Roles of Interleukin-6 in Activation of STAT Proteins and Recruitment of Neutrophils during *Escherichia coli* Pneumonia**
Matthew R. Jones, Lee J. Quinton, Benjamin T. Simms, Michal M. Lupa, Mariya S. Kogan, and Joseph P. Mizgerd

370 **Role of T Cells in Innate and Adaptive Immunity against Murine *Burkholderia pseudomallei* Infection**
Ashraful Haque, Anna Easton, Debbie Smith, Anne O'Garra, Nico Van Rooijen, Ganjana Lertmemongkolchai, Richard W. Titball, and Gregory J. Bancroft

380 **Antiangiogenic Effect of Erythromycin: An In Vitro Model of *Bartonella quintana* Infection**
Soraya Meghari, Jean-Marc Rolain, Georges E. Grau, Esther Platt, Lina Barrassi, Jean-Louis Mège, and Didier Raoult

VIRUSES

387 **The Role of Human Metapneumovirus in Upper Respiratory Tract Infections in Children: A 20-Year Experience**
John V. Williams, Chiaoyin K. Wang, Chin-Fen Yang, Sharon J. Tollefson, Frances S. House, Josh M. Heck, Marla Chu, Jennifer B. Brown, Linda D. Lintao, Joe D. Quinto, David Chu, Richard R. Spaete, Kathryn M. Edwards, Peter F. Wright, and James E. Crowe, Jr.

396 **Genetic Variability of Human Metapneumovirus Infection: Evidence of a Shift in Viral Genotype without a Change in Illness**
Eugene Agapov, Kaharu C. Sumino, Monique Gaudreault-Keener, Gregory A. Storch, and Michael J. Holtzman

404 **Expression of Programmed Death–1 Ligand (PD-L) 1, PD-L2, B7-H3, and Inducible Costimulator Ligand on Human Respiratory Tract Epithelial Cells and Regulation by Respiratory Syncytial Virus and Type 1 and 2 Cytokines**
Luminita A. Stanciu, Cinzia M. Bellettato, Vasile Laza-Stanca, Anthony J. Coyle, Alberto Papi, and Sebastian L. Johnston

413 **Molecular and Epidemiologic Trends of Caliciviruses Associated with Outbreaks of Acute Gastroenteritis in the United States, 2000–2004**
Lenee H. Blanton, Susan M. Adams, R. Suzanne Beard, Gang Wei, Sandra N. Bulens, Marc-Alain Widdowson, Roger I. Glass, and Stephan S. Monroe

422 **High Levels of Epstein-Barr Virus DNA in Saliva and Peripheral Blood from Ugandan Mother-Child Pairs**
Sam M. Mbulaiteye, Michael Walters, Eric A. Engels, Paul M. Bakaki, Christopher M. Ndugwa, Anchilla M. Owor, James J. Goedert, Denise Whitby, and Robert J. Biggar

427 **Human T Lymphotropic Virus Types I and II Western Blot Seroindeterminate Status and Its Association with Exposure to Prototype HTLV-I**
Karen Yao, Michie Hisada, Elizabeth Maloney, Yoshihisa Yamano, Barrie Hanchard, Rainford Wilks, Maria Rios, and Steven Jacobson

438 **Association between Severe Respiratory Syncytial Virus Infection and *IL13/IL4* Haplotypes**
Beena Puthothu, Marcus Krueger, Johannes Forster, and Andrea Heinzmann

442 **The Receptor-Binding Region of Human Apolipoprotein E Has Direct Anti-Infective Activity**
Curtis B. Dobson, Sean D. Sales, Patrick Hoggard, Matthew A. Wozniak, and Keith A. Crutcher

451 **GB Virus C Replicates in Primary T and B Lymphocytes**
Sarah L. George, Dino Varmaz, and Jack T. Stapleton

HIV/AIDS

455 **Surveillance of HIV, Hepatitis B Virus, and Hepatitis C Virus in an Estonian Injection Drug–Using Population: Sensitivity and Specificity of Testing Syringes for Public Health Surveillance**
Anneli Uusküla, Robert Heimer, Jack DeHovitz, Krista Fischer, and Louise-Anne McNutt

458 **Risk Factors Influencing HIV Infection Incidence in a Rural African Population: A Nested Case-Control Study**
James Todd, Heiner Grosskurth, John Changalucha, Angela Obasi, Frank Mosha, Rebecca Balira, Kate Orroth, Stephane Hugonnet, Mar Pujades, David Ross, Awene Gavyole, David Mabey, and Richard Hayes

PARASITES

467 **Clinical Case Definitions and Malaria Vaccine Efficacy**
William O. Rogers, Frank Atuguba, Abraham R. Oduro, Abraham Hodgson, and Kwadwo A. Koram

474 **Oral Ivermectin in the Treatment of Body Lice**
Cédric Foucault, Stéphane Ranque, Sekene Badiaga, Clarisse Rovery, Didier Raoult, and Philippe Brouqui

CORRESPONDENCE

477 **Pneumococcal Serotypes and Virulence**
Daniel M. Musher

477 **Reply to Musher**
Birgitta Henriques-Normark

Volume 193 • Number 4 15 February 2006

MAJOR ARTICLES AND BRIEF REPORTS

HIV/AIDS

479 **Development of Nevirapine Resistance in Infants Is Reduced by Use of Infant-Only Single-Dose Nevirapine plus Zidovudine Postexposure Prophylaxis for the Prevention of Mother-to-Child Transmission of HIV-1**
Susan H. Eshleman, Donald R. Hoover, Sarah E. Hudelson, Shu Chen, Susan A. Fiscus, Estelle Piwowar-Manning, J. Brooks Jackson, Newton I. Kumwenda, and Taha E. Taha

482 **Low Risk of Nevirapine Resistance Mutations in the Prevention of Mother-to-Child Transmission of HIV-1: Agence Nationale de Recherches sur le SIDA Ditrame Plus, Abidjan, Côte d'Ivoire**
Marie-Laure Chaix, Didier Koumavi Ekouevi, François Rouet, Besigin Tonwe-Gold, Ida Viho, Laurence Bequet, Gilles Peytavin, Hassane Toure, Hervé Menan, Valériane Leroy, Francois Dabis, and Christine Rouzioux, for the Agence Nationale de Recherches sur le SIDA Ditrame Plus Study Group

488 **Cytomegalovirus-Specific Immunity and Protection against Viremia and Disease in HIV-Infected Patients in the Era of Highly Active Antiretroviral Therapy**
Adriana Weinberg, Camlin Tierney, Michelle A. Kendall, Ronald J. Bosch, Julie Patterson-Bartlett, Alejo Erice, Martin S. Hirsch, Bruce Polsky, and the AIDS Clinical Trials Group 360 Team

494 **Abnormal Presence of Semimature Dendritic Cells That Induce Regulatory T Cells in HIV-Infected Subjects**
Mitchell D. Krathwohl, Timothy W. Schacker, and Jodi L. Anderson

505 **Increased Plasma Interleukin-7 Level Correlates with Decreased CD127 and Increased CD132 Extracellular Expression on T Cell Subsets in Patients with HIV-1 Infection**
Sarah C. Sasson, John J. Zaunders, Giulia Zanetti, Eleanor M. King, Kate M. Merlin, Don E. Smith, Keith K. Stanley, David A. Cooper, and Anthony D. Kelleher

BACTERIA

515 **Safety and Immunogenicity of *Escherichia coli* O157 O-Specific Polysaccharide Conjugate Vaccine in 2–5-Year-Old Children**
Amina Ahmed, Jianpin Li, Yossi Shiloach, John B. Robbins, and Shousun C. Szu

522 **Urokinase-Type Plasminogen Activator Receptor Plays a Role in Neutrophil Migration during Lipopolysaccharide-Induced Peritoneal Inflammation but Not during *Escherichia coli*–Induced Peritonitis**
Rosemarijn Renckens, Joris J. T. H. Roelofs, Sandrine Florquin, and Tom van der Poll

531 **The Effect of Bacille Calmette-Guérin Vaccine Strain and Route of Administration on Induced Immune Responses in Vaccinated Infants**
Virginia Davids, Willem A. Hanekom, Nazma Mansoor, Hoyam Gamieldien, Sebastian J. Gelderbloem, Anthony Hawkridge, Gregory D. Hussey, E. Jane Hughes, Jorge Soler, Rose Ann Murray, Stanley R. Ress, and Gilla Kaplan

537 **A Controlled, Household-Randomized, Open-Label Trial of the Effect That Treatment of *Helicobacter pylori* Infection Has on Iron Deficiency in Children in Rural Alaska**
Bradford D. Gessner, Henry C. Baggett, Pam T. Muth, Eitel Dunaway, Benjamin D. Gold, Ziding Feng, and Alan J. Parkinson

547 **Comprehensive Analysis of Bacterial Risk Factors for the Development of Guillain-Barré Syndrome after *Campylobacter jejuni* Enteritis**
Michiaki Koga, Michel Gilbert, Masaki Takahashi, Jianjun Li, Saiko Koike, Koichi Hirata, and Nobuhiro Yuki

556 **Local and Systemic Cytokine Levels in Relation to Changes in Vaginal Flora**
Spencer R. Hedges, Frank Barrientes, Renee A. Desmond, and Jane R. Schwebke

VIRUSES

563 **Vigorous Hepatitis C Virus–Specific $CD4^+$ and $CD8^+$ T Cell Responses Induced by Protein Immunization in the Presence of Montanide ISA720 plus Synthetic Oligodeoxynucleotides Containing Immunostimulatory Cytosine-Guanine Dinucleotide Motifs**
Fuminaka Sugauchi, Richard Y.-H. Wang, Qi Qiu, Bo Jin, Harvey J. Alter, and J. Wai-Kuo Shih

573 **The Interferon Antagonist NS2 Protein of Respiratory Syncytial Virus Is an Important Virulence Determinant for Humans**
Peter F. Wright, Ruth A. Karron, Shabir A. Madhi, John J. Treanor, James C. King, Alice O'Shea, Mine R. Ikizler, Yuwei Zhu, Peter L. Collins, Clare Cutland, Valerie B. Randolph, Anne M. Deatly, Jill G. Hackell, William C. Gruber, and Brian R. Murphy

582 **Activation of Synoviocytes by the Secreted Phospholipase A_2 Motif in the VP1-Unique Region of Parvovirus B19 Minor Capsid Protein**
Jun Lu, Ning Zhi, Susan Wong, and Kevin E. Brown

591 **Effect of Maternal Treatment with Cyclic HPMPC in the Guinea Pig Model of Congenital Cytomegalovirus Infection**
Fernando J. Bravo, Rhonda D. Cardin, and David I. Bernstein

598 **1,25-Dihydroxyvitamin D3 Enhances Systemic and Mucosal Immune Responses to Inactivated Poliovirus Vaccine in Mice**
Alexander P. Ivanov, Eugenia M. Dragunsky, and Konstantin M. Chumakov

CORRESPONDENCE

601 **Measuring Dengue Enhancing Antibodies: Caveats**
Scott B. Halstead

601 **Antibody-Dependent Enhancement in Dengue Virus Infections**
Donald S. Burke and Srisakul Kliks

603 **Reply to Halstead and to Burke and Kliks**
Sharone Green, Daniel H. Libraty, Kamolwish Laoprasopwattana, Francis A. Ennis, and Alan L. Rothman

604 **Amplified HIV Transmission during Early-Stage Infection**
Richard J. Hayes and Richard G. White

605 **Reply to Hayes and White**
Maria J. Wawer, David Serwadda, Thomas C. Quinn, Nelson Sewankambo, Noah Kiwanuka, Xianbin Li, and Ronald H. Gray

Volume 193 • Number 5 1 March 2006

MAJOR ARTICLES AND BRIEF REPORTS

BACTERIA

607 **Predictors of Immunity after a Major Serogroup W-135 Meningococcal Disease Epidemic, Burkina Faso, 2002**
Pratima L. Raghunathan, Joshua D. Jones, Sylvestre R. M. Tiendrebéogo, Idrissa Sanou, Lassana Sangaré, Seni Kouanda, Moumouni Dabal, Clement Lingani, Cheryl M. Elie, Scott Johnson, Mary Ari, Joseph Martinez, Julie Chatt, Kassim Sidibe, Susanna Schmink, Leonard W. Mayer, M. Kader Kondé, Mamoudou H. Djingarey, Tanja Popovic, Brian D. Plikaytis, George M. Carlone, Nancy Rosenstein, and Montse Soriano-Gabarró

617 **Risk Factors for Cervicitis among Women with Bacterial Vaginosis**
Jeanne M. Marrazzo, Harold C. Wiesenfeld, Pamela J. Murray, Barbara Busse, Leslie Meyn, Marijane Krohn, and Sharon L. Hillier

625 **Efficient Neutralization of Anthrax Toxin by Chimpanzee Monoclonal Antibodies against Protective Antigen**
Zhaochun Chen, Mahtab Moayeri, Yi-Hua Zhou, Stephen Leppla, Suzanne Emerson, Andrew Sebrell, Fujuan Yu, Juraj Svitel, Peter Schuck, Marisa St. Claire, and Robert Purcell

634 **Effective Dosing of Lipid A Analogue E5564 in Rats Depends on the Timing of Treatment and the Route of *Escherichia coli* Infection**
Steven B. Solomon, Xizhong Cui, Eric Gerstenberger, Robert L. Danner, Yvonne Fitz, Steven M. Banks, Charles Natanson, and Peter Q. Eichacker

645 **Genetic Determinants of Capsular Serotype K1 of *Klebsiella pneumoniae* Causing Primary Pyogenic Liver Abscess**
Yi-Ping Chuang, Chi-Tai Fang, Shau-Yan Lai, Shan-Chwen Chang, and Jin-Town Wang

VIRUSES

655 **Human Leukocyte Antigen Haplotypes in the Genetic Control of Immune Response to Measles-Mumps-Rubella Vaccine**
Inna G. Ovsyannikova, V. Shane Pankratz, Robert A. Vierkant, Robert M. Jacobson, and Gregory A. Poland

664 **Prolonged Illness after Infectious Mononucleosis Is Associated with Altered Immunity but Not with Increased Viral Load**
Barbara Cameron, Mandvi Bharadwaj, Jacqueline Burrows, Chrysa Fazou, Denis Wakefield, Ian Hickie, Rosemary Ffrench, Rajiv Khanna, and Andrew Lloyd, for the Dubbo Infection Outcomes Study

672 **High Serum Hepatitis C Virus (HCV) RNA Load Predicts the Presence of HCV RNA in Saliva from Individuals with Chronic and Acute HCV Infection**
Chia C. Wang, Chihiro Morishima, Minjun Chung, Rebecca Engelberg, Elizabeth Krantz, Meighan Krows, Daniel G. Sullivan, David R. Gretch, and Lawrence Corey

677 **Live Attenuated Influenza Vaccine Is Safe and Immunogenic in Immunocompromised Ferrets**
Victor C. Huber and Jonathan A. McCullers

685 **Therapy with a Severe Acute Respiratory Syndrome–Associated Coronavirus–Neutralizing Human Monoclonal Antibody Reduces Disease Severity and Viral Burden in Golden Syrian Hamsters**
Anjeanette Roberts, William D. Thomas, Jeannette Guarner, Elaine W. Lamirande, Gregory J. Babcock, Thomas C. Greenough, Leatrice Vogel, Norman Hayes, John L. Sullivan, Sherif Zaki, Kanta Subbarao, and Donna M. Ambrosino

HIV/AIDS

693 **Normal CD16 Expression and Phagocytosis of *Mycobacterium avium* Complex by Monocytes from a Current Cohort of HIV-1–Infected Patients**
Anthony Jaworowski, Philip Ellery, Clare L. Maslin, Eman Naim, Amy Candy Heinlein, Claire E. Ryan, Geza Paukovics, Jane Hocking, Secondo Sonza, and Suzanne M. Crowe

698 **Repeat-Region Polymorphisms in the Gene for the Dendritic Cell–Specific Intercellular Adhesion Molecule-3–Grabbing Nonintegrin–Related Molecule: Effects on HIV-1 Susceptibility**
Huanliang Liu, Mary Carrington, Chunhui Wang, Sarah Holte, Jean Lee, Benjamin Greene, Florian Hladik, David M. Koelle, Anna Wald, Kyoko Kurosawa, Charles R. Rinaldo, Connie Celum, Roger Detels, Lawrence Corey, M. Juliana McElrath, and Tuofu Zhu

703 **Premature Induction of an Immunosuppressive Regulatory T Cell Response during Acute Simian Immunodeficiency Virus Infection**
Jacob D. Estes, Qingsheng Li, Matthew R. Reynolds, Stephen Wietgrefe, Lijie Duan, Timothy Schacker, Louis J. Picker, David I. Watkins, Jeffrey D. Lifson, Cavan Reilly, John Carlis, and Ashley T. Haase

PARASITES

713 **Dynamics of Anti-VAR2CSA Immunoglobulin G Response in a Cohort of Senegalese Pregnant Women**
N. G. Tuikue Ndam, A. Salanti, J.-Y. Le-Hesran, G. Cottrell, N. Fievet, L. Turner, S. Sow, J.-M. Dangou, T. Theander, and P. Deloron

721 **Antigenic Differences and Conservation among Placental *Plasmodium falciparum*–Infected Erythrocytes and Acquisition of Variant-Specific and Cross-Reactive Antibodies**
James G. Beeson, Emily J. Mann, Timothy J. Byrne, Aphrodite Caragounis, Salenna R. Elliott, Graham V. Brown, and Stephen J. Rogerson

731 **Immunization of *Aotus* Monkeys with Recombinant Cysteine-Rich Interdomain Region 1α Protects against Severe Disease during *Plasmodium falciparum* Reinfection**
Morris O. Makobongo, Brian Keegan, Carole A. Long, and Louis H. Miller

FUNGI

741 **Prospective Evaluation of a Polymerase Chain Reaction–ELISA Targeted to *Aspergillus fumigatus* and *Aspergillus flavus* for the Early Diagnosis of Invasive Aspergillosis in Patients with Hematological Malignancies**
Martine Florent, Sandrine Katsahian, Anne Vekhoff, Vincent Levy, Bernard Rio, Jean-Pierre Marie, Anne Bouvet, and Muriel Cornet

CORRESPONDENCE

748 **Association between Serum Cytokine Profiles and Schistosomiasis-Related Hepatic Fibrosis: Infection by *Schistosoma japonicum* versus *S. mansoni***
Philippe Bonnard, Franck Remoué, Anne-Marie Schacht, Gilles Pialoux, and Gilles Riveau

749 **Reply to Bonnard et al.**
Hannah M. Coutinho

Volume 193 • Number 6 15 March 2006

EDITORIAL COMMENTARIES

751 **The Clinical Need for New Antiviral Drugs Directed against Influenza Virus**
Jonathan A. McCullers

754 **Meningococcal Control in the United States and Africa**
Stanley A. Plotkin and Sheldon L. Kaplan

756 **The Benefits and Concerns Related to Vitamin A Supplementation**
Wafaie W. Fawzi

MAJOR ARTICLES AND BRIEF REPORTS

VIRUSES

760 **Recovery of Drug-Resistant Influenza Virus from Immunocompromised Patients: A Case Series**
Michael G. Ison, Larisa V. Gubareva, Robert L. Atmar, John Treanor, and Frederick G. Hayden

765 **Comparative Activities of Oseltamivir and A-322278 in Immunocompetent and Immunocompromised Murine Models of Influenza Virus Infection**
Michael G. Ison, Vasiliy P. Mishin, Thomas J. Braciale, Frederick G. Hayden, and Larisa V. Gubareva

773 **Quantitative Analysis of Kaposi Sarcoma–Associated Herpesvirus (KSHV) in KSHV-Associated Diseases**
Yasuko Asahi-Ozaki, Yuko Sato, Takayuki Kanno, Tetsutaro Sata, and Harutaka Katano

783 **Preconceptional Primary Human Cytomegalovirus Infection and Risk of Congenital Infection**
Maria Grazia Revello, Maurizio Zavattoni, Milena Furione, Elisa Fabbri, and Giuseppe Gerna

788 **Human Cytomegalovirus–Encoded α-Chemokines Exhibit High Sequence Variability in Congenitally Infected Newborns**
Ravit Arav-Boger, Charles B. Foster, Jian-Chao Zong, and Robert F. Pass

792 **Two-Year Prospective Study of the Humoral Immune Response of Patients with Severe Acute Respiratory Syndrome**
Wei Liu, Arnaud Fontanet, Pan-He Zhang, Lin Zhan, Zhong-Tao Xin, Laurence Baril, Fang Tang, Hui Lv, and Wu-Chun Cao

796 **Comparison of an Anti-Rabies Human Monoclonal Antibody Combination with Human Polyclonal Anti-Rabies Immune Globulin**
Jaap Goudsmit, Wilfred E. Marissen, William C. Weldon, Michael Niezgoda, Cathleen A. Hanlon, Amy B. Rice, John de Kruif, Bernhard Dietzschold, Alexander B. H. Bakker, and Charles E. Rupprecht

802 **Stability of CXCL-8 and Related AU-Rich mRNAs in the Context of Hepatitis C Virus Replication In Vitro**
Jamison Green, Khalid S. A. Khabar, Bon Chang A. Koo, Bryan R. G. Williams, and Stephen J. Polyak

BACTERIA

812 ***Neisseria meningitidis* Serogroups A and W-135: Carriage and Immunity in Burkina Faso, 2003**
Judith E. Mueller, Seydou Yaro, Yves Traoré, Lassana Sangaré, Zekiba Tarnagda, Berthe-Marie Njanpop-Lafourcade, Raymond Borrow, and Bradford D. Gessner

821 **Antibody Persistence 3 Years after Immunization of Adolescents with Quadrivalent Meningococcal Conjugate Vaccine**
David M. Vu, Jo Anne Welsch, Patricia Zuno-Mitchell, Josefa V. Dela Cruz, and Dan M. Granoff

829 **Sublethal Doses of *Bacillus anthracis* Lethal Toxin Inhibit Inflammation with Lipopolysaccharide and *Escherichia coli* Challenge but Have Opposite Effects on Survival**
Xizhong Cui, Yan Li, Xuemei Li, Michael Haley, Mahtab Moayeri, Yvonne Fitz, Stephen H. Leppla, and Peter Q. Eichacker

841 **Characterization of the *Staphylococcus epidermidis* Accessory-Gene Regulator Response: Quorum-Sensing Regulation of Resistance to Human Innate Host Defense**
Yufeng Yao, Cuong Vuong, Stanislava Kocianova, Amer E. Villaruz, Yuping Lai, Daniel E. Sturdevant, and Michael Otto

849 ***Borrelia burgdorferi* Lipoprotein–Mediated TLR2 Stimulation Causes the Down-Regulation of TLR5 in Human Monocytes**
Erik S. Cabral, Harald Gelderblom, Ronald L. Hornung, Peter J. Munson, Roland Martin, and Adriana R. Marques

HIV/AIDS

860 **Effects of a Single Large Dose of Vitamin A, Given during the Postpartum Period to HIV-Positive Women and Their Infants, on Child HIV Infection, HIV-Free Survival, and Mortality**
Jean H. Humphrey, Peter J. Iliff, Edmore T. Marinda, Kuda Mutasa, Lawrence H. Moulton, Henry Chidawanyika, Brian J. Ward, Kusum J. Nathoo, Lucie C. Malaba, Lynn S. Zijenah, Partson Zvandasara, Robert Ntozini, Faith Mzengeza, Agnes I. Mahomva, Andrea J. Ruff, Michael T. Mbizvo, Clare D. Zunguza, and the ZVITAMBO Study Group

872 **Impact of HIV-Associated Immunosuppression on Malaria Infection and Disease in Malawi**
Miriam K. Laufer, Joep J. G. van Oosterhout, Philip C. Thesing, Feston Thumba, Eduard E. Zijlstra, Stephen M. Graham, Terrie E. Taylor, and Christopher V. Plowe

879 **$CD8^+$ T Cells in HIV Disease Exhibit Cytokine Receptor Perturbation and Poor T Cell Receptor Activation but Are Responsive to γ-Chain Cytokine–Driven Proliferation**
Rajendra Pahwa, Thomas W. McCloskey, Olga C. Aroniadis, Natasa Strbo, Subramaniam Krishnan, and Savita Pahwa

FUNGI

888 **Pulmonary $V\beta4^+$ T Cells from *Histoplasma capsulatum*–Infected Mice Respond to a Homologue of Sec31 That Confers a Protective Response**
Mark R. Scheckelhoff and George S. Deepe, Jr.

CORRESPONDENCE

898 **Age Dependence of the Relation between Reassortant Rotavirus Vaccine (RotaShield) and Intussusception**
Kenneth J. Rothman, Yinong Young-Xu, and Felix Arellano

898 **Reply to Rothman et al.**
L. Simonsen, R. J. Taylor, A. Elixhauser, C. Viboud, and A. Z. Kapikian

899 **Human Illness and Isolation of Low-Pathogenicity Avian Influenza Virus of the H7N3 Subtype in British Columbia, Canada**
Danuta M. Skowronski, S. Aleina Tweed, Martin Petric, Tim Booth, Yan Li, and Theresa Tam

900 **Reply to Skowronski et al.**
Simona Puzelli, Livia Di Trani, Concetta Fabiani, Laura Campitelli, Maria Alessandra De Marco, Ilaria Capua, Jean Francois Aguilera, Maria Zambon, and Isabella Donatelli

901 **Coinfection with *Borrelia burgdorferi* and *Babesia microti*: Bad or Worse?**
Raphael B. Stricker, Joseph J. Burrascano, Nick S. Harris, Richard Horowitz, Lorraine Johnson, Patricia V. Smith, and Steven E. Phillips

902 **Reply to Stricker et al.**
James L. Coleman and Jorge L. Benach

902 **Poverty and the Spread of Bloodborne Disease in Central China**
Joseph D. Tucker and Charles C. Lin

ERRATUM

904 **Soriani et al. (2006; 193:241–50)**

Volume 193 • Number 7 1 April 2006

MAJOR ARTICLES AND BRIEF REPORTS

VIRUSES

905 **The Spectrum of Genital Herpes Simplex Virus Infection in Men Attending a Sexually Transmitted Disease Clinic**
James M. Sizemore, Jr., Fred Lakeman, Richard Whitley, Annalee Hughes, and Edward W. Hook III

912 **Transmission of Integrated Human Herpesvirus 6 through Stem Cell Transplantation: Implications for Laboratory Diagnosis**
Duncan A. Clark, Elisabeth P. Nacheva, Hoe Nam Leong, Diana Brazma, Ying Ting Li, Edward H. F. Tsao, Hubertus C. E. Buyck, Claire E. Atkinson, Heather M. Lawson, Michael N. Potter, and Paul D. Griffiths

917 **Down-Regulation of Human Leukocyte Antigen Class I and II and β_2-Microglobulin Expression in Human Herpesvirus-7–Infected Cells**
Prisco Mirandola, Ivonne Sponzilli, Elvira Solenghi, Cristina Micheloni, Laura Rinaldi, Giuliana Gobbi, and Marco Vitale

927 **Vaccine Oka Varicella-Zoster Virus Genotypes Are Monomorphic in Single Vesicles and Polymorphic in Respiratory Tract Secretions**
Mark A. Quinlivan, Anne A. Gershon, Richard A. Nichols, Philip La Russa, Sharon P. Steinberg, and Judy Breuer

931 **Hepatitis C Virus–Specific Immune Responses and Quasi-Species Variability at Baseline Are Associated with Nonresponse to Antiviral Therapy during Advanced Hepatitis C**
Chihiro Morishima, Stephen J. Polyak, Ranjit Ray, Michael C. Doherty, Adrian M. Di Bisceglie, Peter F. Malet, Herbert L. Bonkovsky, Daniel G. Sullivan, David R. Gretch, Alan L. Rothman, Margaret James Koziel, Karen L. Lindsay, and the Hepatitis C Antiviral Long-Term Treatment against Cirrhosis Trial Group

941 **Evaluation of Serum Levels of Interleukin (IL)–6, IL-10, and Tumor Necrosis Factor–α in Patients with Crimean-Congo Hemorrhagic Fever**
Onder Ergonul, Semra Tuncbilek, Nurcan Baykam, Aysel Celikbas, and Basak Dokuzoguz

945 **Functional Tumor Necrosis Factor–Related Apoptosis-Inducing Ligand Production by Avian Influenza Virus–Infected Macrophages**
Jianfang Zhou, Helen K. W. Law, Chung Yan Cheung, Iris H. Y. Ng, J. S. Malik Peiris, and Yu Lung Lau

HIV/AIDS

954 **CD4 Cell Response to Antiretroviral Therapy in Children with Vertically Acquired HIV Infection: Is It Associated with Age at Initiation?**
European Collaborative Study

963 **Mechanism for the Establishment of Transcriptional HIV Latency in the Brain in a Simian Immunodeficiency Virus–Macaque Model**
Sheila A. Barber, Lucio Gama, Justyna M. Dudaronek, Tauni Voelker, Patrick M. Tarwater, and Janice E. Clements

PARASITES

971 **Clearance of Circulating Epstein-Barr Virus DNA in Children with Acute Malaria after Antimalaria Treatment**
Daria Donati, Eva Espmark, Fred Kironde, Edward Katongole Mbidde, Moses Kamya, Åke Lundkvist, Mats Wahlgren, Maria Teresa Bejarano, and Kerstin I. Falk

978 **Geographic Differences in Antimalarial Drug Efficacy in Uganda Are Explained by Differences in Endemicity and Not by Known Molecular Markers of Drug Resistance**
Damon Francis, Samuel L. Nsobya, Ambrose Talisuna, Adoke Yeka, Moses R. Kamya, Rhoderick Machekano, Christian Dokomajilar, Philip J. Rosenthal, and Grant Dorsey

987 **Recombinant Human Erythropoietin Prevents the Death of Mice during Cerebral Malaria**
Karine Kaiser, Anthony Texier, Josette Ferrandiz, Alain Buguet, Anne Meiller, Christine Latour, François Peyron, Raymond Cespuglio, and Stéphane Picot

996 **Liver-Stage Development of *Plasmodium falciparum*, in a Humanized Mouse Model**
Serban Morosan, Stéphanie Hez-Deroubaix, Françoise Lunel, Laurent Renia, Carlo Giannini, Nico Van Rooijen, Serena Battaglia, Catherine Blanc, Wijnand Eling, Robert Sauerwein, Laurent Hannoun, Jacques Belghiti, Christian Brechot, Dina Kremsdorf, and Pierre Druilhe

1005 **Prenatal T Cell Immunity to *Wuchereria bancrofti* and Its Effect on Filarial Immunity and Infection Susceptibility during Childhood**
Indu Malhotra, Peter L. Mungai, Alex N. Wamachi, Daniel Tisch, John M. Kioko, John H. Ouma, Eric Muchiri, James W. Kazura, and Christopher L. King

FUNGI

1014 ***Drosophila melanogaster* as a Facile Model for Large-Scale Studies of Virulence Mechanisms and Antifungal Drug Efficacy in *Candida* Species**
Georgios Chamilos, Michail S. Lionakis, Russell E. Lewis, Jose L. Lopez-Ribot, Stephen P. Saville, Nathaniel D. Albert, Georg Halder, and Dimitrios P. Kontoyiannis

1023 **Inhibitor κB and Nuclear Factor κB in Granulocyte-Macrophage Colony-Stimulating Factor Antagonism of Dexamethasone Suppression of the Macrophage Response to *Aspergillus fumigatus* Conidia**
Jung-Hyun Choi, Elmer Brummer, Young Jun Kang, Patricia P. Jones, and David A. Stevens

BACTERIA

1029 **An Improved Technique for Isolation of Environmental *Vibrio cholerae* with Epidemic Potential: Monitoring the Emergence of a Multiple-Antibiotic–Resistant Epidemic Strain in Bangladesh**
Shah M. Faruque, M. Johirul Islam, Qazi Shafi Ahmad, Kuntal Biswas, A. S. G. Faruque, G. Balakrish Nair, R. Bradley Sack, David A. Sack, and John J. Mekalanos

1037 **Effects of Cyclooxygenase-1 and -2 Gene Disruption on *Helicobacter pylori*–Induced Gastric Inflammation**
Guo Qing Li, Harry Hua-Xiang Xia, Min Hu Chen, Qing Gu, Ji De Wang, Jun Zhong Peng, Annie O. O. Chan, Chi Hin Cho, Hau Leung So, Shiu Kum Lam, Pin Jin Hu, Ying Jie Liang, Han Liang Lin, Douglas E. Berg, Zhe Hui Feng, Robert Langenbach, and Benjamin Chun-Yu Wong

CORRESPONDENCE

1047 **Immunoglobulin G2 Antibodies and HIV-Infected Long-Term Nonprogressors: What Is the Mechanism?**
Brad Spellberg

1047 **Reply to Spellberg**
Nicole N'Go-Giang-Huong, Christine Rouzioux, and Brigitte Autran, for the Asymptomatiques à Long Terme Study Group

1048 **Impact of Sex on Hepatitis C Virus Transmission: Conflicting Results**
Y. Yazdanpanah, G. De Carli, E. Bouvet, and V. Puro

1050 **Reply to Yazdanpanah et al.**
Lucy Pembrey, Marie-Louise Newell, and Pier-Angelo Tovo, for the European Paediatric Hepatitis C Virus Network

Volume 193 • Number 8 15 April 2006

EDITORIAL COMMENTARY

1051 **The Host Control of Lytic and Latent Infection with Human Herpesvirus–8**
Justin Stebbing, Brian Gazzard, and Mark Bower

MAJOR ARTICLES AND BRIEF REPORTS

VIRUSES

1054 **Host Immunogenetics and Control of Human Herpesvirus–8 Infection**
Elizabeth E. Brown, M. Daniele Fallin, James J. Goedert, Amy Hutchinson, Francesco Vitale, Carmela Lauria, Massimo Giuliani, Vickie Marshall, Georgina Mbisa, Diego Serraino, Angelo Messina, Scott Durum, Denise Whitby, Stephen J. Chanock, and the Kaposi Sarcoma Genetics Working Group

1063 **Characteristics and Acquisition of Human Herpesvirus (HHV) 7 Infections in Relation to Infection with HHV-6**
Caroline Breese Hall, Mary T. Caserta, Kenneth C. Schnabel, Michael P. McDermott, Geraldine K. Lofthus, Jennifer A. Carnahan, Lynne M. Gilbert, and Stephen Dewhurst

1070 **Cell Type–Specific Mechanisms of Interleukin-8 Induction by Dengue Virus and Differential Response to Drug Treatment**
Carey L. Medin and Alan L. Rothman

1078 **Vascular Leakage in Severe Dengue Virus Infections: a Potential Role for the Nonstructural Viral Protein NS1 and Complement**
Panisadee Avirutnan, Nuntaya Punyadee, Sansanee Noisakran, Chulaluk Komoltri, Somchai Thiemmeca, Kusuma Auethavornanan, Aroonroong Jairungsri, Rattiyaporn Kanlaya, Nattaya Tangthawornchaikul, Chunya Puttikhunt, Sa-nga Pattanakitsakul, Pa-thai Yenchitsomanus, Juthathip Mongkolsapaya, Watchara Kasinrerk, Nopporn Sittisombut, Matthias Husmann, Maria Blettner, Sirijitt Vasanawathana, Sucharit Bhakdi, and Prida Malasit

1089 **Identification of a Novel Single-Stranded DNA Fragment Associated with Human Hepatitis**
Chau-Ting Yeh, Mei-Lin Tsao, Ying-Chun Lin, and I-Chu Tseng

BACTERIA

1098 **Identification of In Vivo–Expressed Antigens of *Staphylococcus aureus* and Their Use in Vaccinations for Protection against Nasal Carriage**
Simon R. Clarke, Kirsten J. Brummell, Malcolm J. Horsburgh, Philip W. McDowell, Sharifah A. Syed Mohamad, Melanie R. Stapleton, Jorge Acevedo, Robert C. Read, Nicholas P. J. Day, Sharon J. Peacock, James J. Mond, John F. Kokai-Kun, and Simon J. Foster

1109 **The Role of *Staphylococcus aureus* Adhesins in the Pathogenesis of Ventricular Assist Device–Related Infections**
Carlos Arrecubieta, Tomohiro Asai, Manuel Bayern, Anthony Loughman, J. Ross Fitzgerald, Corbett E. Shelton, Helen M. Baron, Nicholas C. Dang, Mario C. Deng, Yoshifumi Naka, Timothy J. Foster, and Franklin D. Lowy

1120 **Human Serum Amyloid P Component Protects against *Escherichia coli* O157:H7 Shiga Toxin 2 In Vivo: Therapeutic Implications for Hemolytic-Uremic Syndrome**
Glen D. Armstrong, George L. Mulvey, Paola Marcato, Thomas P. Griener, Melvyn C. Kahan, Glenys A. Tennent, Caroline A. Sabin, Henrik Chart, and Mark B. Pepys

1125 **Renal Injury Is a Consistent Finding in Dutch Belted Rabbits Experimentally Infected with Enterohemorrhagic *Escherichia coli***
Alexis García, Carlos J. Bosques, John S. Wishnok, Yan Feng, Brad J. Karalius, Joan R. Butterton, David B. Schauer, Arlin B. Rogers, and James G. Fox

1135 **The *fad*D2 Gene Is Required for Efficient *Mycobacterium avium* Invasion of Mucosal Epithelial Cells**
Tapen Dam, Lia Danelishvili, Martin Wu, and Luiz E. Bermudez

1143 **Binary Toxin–Producing, Large Clostridial Toxin–Negative *Clostridium difficile* Strains Are Enterotoxic but Do Not Cause Disease in Hamsters**
Barbara Geric, Robert J. Carman, Maja Rupnik, Christopher W. Genheimer, Susan P. Sambol, David M. Lyerly, Dale N. Gerding, and Stuart Johnson

PARASITES

1151 **Moderate Effect of Artemisinin-Based Combination Therapy on Transmission of *Plasmodium falciparum***
J. Teun Bousema, Petra Schneider, Louis C. Gouagna, Chris J. Drakeley, Alma Tostmann, Rein Houben, John I. Githure, Rosalynn Ord, Colin J. Sutherland, Sabah A. Omar, and Robert W. Sauerwein

1160 **Complexity of *Plasmodium falciparum* Infections and Antimalarial Drug Efficacy at 7 Sites in Uganda**
Sulggi A. Lee, Adoke Yeka, Samuel L. Nsobya, Christian Dokomajilar, Philip J. Rosenthal, Ambrose Talisuna, and Grant Dorsey

1164 ***Brugia malayi* Asparaginyl–Transfer RNA Synthetase Induces Chemotaxis of Human Leukocytes and Activates G-Protein–Coupled Receptors CXCR1 and CXCR2**
Bernadette L. Ramirez, O. M. Zack Howard, Hui Fang Dong, Takeo Edamatsu, Ping Gao, Michael Hartlein, and Michael Kron

HIV/AIDS

1172 **Gene Expression Profiles in Hepatitis C Virus (HCV) and HIV Coinfection: Class Prediction Analyses before Treatment Predict the Outcome of Anti-HCV Therapy among HIV-Coinfected Persons**
R. A. Lempicki, M. A. Polis, J. Yang, M. McLaughlin, C. Koratich, D. W. Huang, B. Fullmer, L. Wu, C. A. Rehm, H. Masur, H. C. Lane, K. E. Sherman, A. S. Fauci, and S. Kottilil

FUNGI

1178 **Enhanced Allergic Inflammation and Airway Responsiveness in Rats with Chronic *Cryptococcus neoformans* Infection: Potential Role for Fungal Pulmonary Infection in the Pathogenesis of Asthma**
David L. Goldman, Jennifer Davis, Frank Bommarito, Xiuping Shao, and Arturo Casadevall

CORRESPONDENCE

1187 **Single Nucleotide Polymorphisms in Human Genes and Increased Susceptibility to West Nile Virus Disease**
Stephen J. Seligman

1188 **Reply to Seligman**
Imtiaz Yakub, Ana Moran, Omar Y. Gonzalez, John Belmont, Richard A. Gibbs, David J. Tweardy, and Kristy M. Lillibridge

1188 **The Male:Female Ratio Does Not Explain a Higher Risk of Vertically Acquired Hepatitis C Virus Infection in Girls**
Lucy Pembrey, Marie-Louise Newell, and Pier-Angelo Tovo

1189 **Impairment of the Antipolysaccharide Response in Splenectomized Patients Is Due to the Lack of Immunoglobulin M Memory B Cells**
Rita Carsetti, Annalisa Pantosti, and Isabella Quinti

Volume 193 • Number 9 1 May 2006

EDITORIAL COMMENTARY

1191 **Protease Inhibitor Use During Pregnancy: Is There an Obstetrical Risk?**
Ruth E. Tuomala and Sigal Yawetz

MAJOR ARTICLES AND BRIEF REPORTS

HIV/AIDS

1195 **Is Antiretroviral Therapy during Pregnancy Associated with an Increased Risk of Preterm Delivery, Low Birth Weight, or Stillbirth?**
Amanda M. Cotter, Adolfo Gonzalez Garcia, M. Lunthita Duthely, Barbara Luke, and Mary J. O'Sullivan

1202 **Evaluating the Impact of Hepatitis C Virus (HCV) on Highly Active Antiretroviral Therapy–Mediated Immune Responses in HCV/HIV-Coinfected Women: Role of HCV on Expression of Primed/Memory T Cells**
Lena Al-Harthi, John Voris, Wenbo Du, David Wright, Marek Nowicki, Toni Frederick, Alan Landay, and Andrea Kovacs

1211 **HIV Infection and Antiretroviral Therapy: Effect on Hepatitis C Virus Quasispecies Variability**
Margaret C. Shuhart, Daniel G. Sullivan, Kirubeal Bekele, Robert D. Harrington, Mari M. Kitahata, Terri L. Mathisen, Lisa V. Thomassen, Scott S. Emerson, and David R. Gretch

1219 **Frequency and Treatment-Related Predictors of Thymidine-Analogue Mutation Patterns in HIV-1 Isolates after Unsuccessful Antiretroviral Therapy**
Andrea De Luca, Simona Di Giambenedetto, Laura Romano, Angela Gonnelli, Paola Corsi, Marco Baldari, Massimo Di Pietro, Stefano Menzo, Paola Francisci, Paolo Almi, Maurizio Zazzi, and the Antiretroviral Resistance Cohort Analysis Study Group

VIRUSES

1223 **Dose-Related Safety and Immunogenicity of a Trivalent Baculovirus-Expressed Influenza-Virus Hemagglutinin Vaccine in Elderly Adults**
John J. Treanor, Gilbert M. Schiff, Robert B. Couch, Thomas R. Cate, Rebecca C. Brady, C. Mhorag Hay, Mark Wolff, Dewei She, and Manon M. J. Cox

1229 **Clinical Features of Influenza C Virus Infection in Children**
Yoko Matsuzaki, Noriko Katsushima, Yukio Nagai, Makoto Shoji, Tsutomu Itagaki, Michiyo Sakamoto, Setsuko Kitaoka, Katsumi Mizuta, and Hidekazu Nishimura

1236 **Pneumococcal Coinfection with Human Metapneumovirus**
Shabir A. Madhi, Herbert Ludewick, Locadiah Kuwanda, Nadia van Niekerk, Clare Cutland, Tessa Little, and Keith P. Klugman

1244 **Anti–Severe Acute Respiratory Syndrome Coronavirus Immune Responses: The Role Played by Vγ9Vδ2 T Cells**
Fabrizio Poccia, Chiara Agrati, Concetta Castilletti, Licia Bordi, Cristiana Gioia, Douglas Horejsh, Giuseppe Ippolito, Paul K. S. Chan, David S. C. Hui, Joseph J. Y. Sung, Maria Rosaria Capobianchi, and Miroslav Malkovsky

1250 **Molecular Evidence for Mother-to-Child Transmission of Kaposi Sarcoma–Associated Herpesvirus in Uganda and K1 Gene Evolution within the Host**
Sam Mbulaiteye, Vickie Marshall, Rachel K. Bagni, Cheng-Dian Wang, Georgina Mbisa, Paul M. Bakaki, Anchilla M. Owor, Christopher M. Ndugwa, Eric A. Engels, Edward Katongole-Mbidde, Robert J. Biggar, and Denise Whitby

1258 **Role of Hepatitis B Viral Load and Basal Core Promoter Mutation in Hepatocellular Carcinoma in Hepatitis B Carriers**
Chun-Jen Liu, Bing-Fang Chen, Pei-Jer Chen, Ming-Yang Lai, Wen-Ling Huang, Jia-Horng Kao, and Ding-Shinn Chen

BACTERIA

1266 **Antigenic Shift and Increased Incidence of Meningococcal Disease**
Lee H. Harrison, Keith A. Jolley, Kathleen A. Shutt, Jane W. Marsh, Mary O'Leary, Laurie Thomson Sanza, Martin C. J. Maiden, and the Maryland Emerging Infections Program

1275 ***Staphylococcus aureus* Carriers Neutralize Superantigens by Antibodies Specific for Their Colonizing Strain: A Potential Explanation for Their Improved Prognosis in Severe Sepsis**
Silva Holtfreter, Katharina Roschack, Petra Eichler, Kristin Eske, Birte Holtfreter, Christian Kohler, Susanne Engelmann, Michael Hecker, Andreas Greinacher, and Barbara M. Bröker

1279 ***Mycobacterium africanum* Elicits an Attenuated T Cell Response to Early Secreted Antigenic Target, 6 kDa, in Patients with Tuberculosis and Their Household Contacts**
Bouke C. de Jong, Philip C. Hill, Roger H. Brookes, Sebastien Gagneux, David J. Jeffries, Jacob K. Otu, Simon A. Donkor, Annette Fox, Keith P. W. J. McAdam, Peter M. Small, and Richard A. Adegbola

1287 ***Mycobacterium tuberculosis* Invasion and Traversal across an In Vitro Human Blood-Brain Barrier as a Pathogenic Mechanism for Central Nervous System Tuberculosis**
Sanjay K. Jain, Maneesh Paul-Satyaseela, Gyanu Lamichhane, Kwang S. Kim, and William R. Bishai

1296 **Incremental Increase in Fitness Cost with Increased β-Lactam Resistance in Pneumococci Evaluated by Competition in an Infant Rat Nasal Colonization Model**
Krzysztof Trzciński, Claudette M. Thompson, Andrea M. Gilbey, Christopher G. Dowson, and Marc Lipsitch

PARASITES

1304 **Progressive Increase in Point Mutations Associated with Chloroquine Resistance in *Plasmodium falciparum* Isolates from India**
Pooja Mittra, Sumiti Vinayak, Hina Chandawat, Manoj K. Das, Neeru Singh, Sukla Biswas, Vas Dev, Ashwani Kumar, Musharraf A. Ansari, and Yagya D. Sharma

1313 **$CD4^+CD25^+$ T Cells in Skin Lesions of Patients with Cutaneous Leishmaniasis Exhibit Phenotypic and Functional Characteristics of Natural Regulatory T Cells**
Ana P. Campanelli, Ana M. Roselino, Karen A. Cavassani, Marcelo S. F. Pereira, Renato A. Mortara, Claudia I. Brodskyn, Heitor S. Gonçalves, Yasmine Belkaid, Manoel Barral-Netto, Aldina Barral, and João S. Silva

FUNGI

1323 **Both $CD4^+$ and $CD8^+$ T Cells Can Mediate Vaccine-Induced Protection against *Coccidioides immitis* Infection in Mice**
Joshua Fierer, Crystal Waters, and Lorraine Walls

CORRESPONDENCE

1332 **Polymorphisms in *Pneumocystis jirovecii* Strains in Spanish Children with Cystic Fibrosis**
M. A. Montes-Cano, C. de la Horra, N. Respaldiza, F. J. Medrano, J. M. Varela, and E. J. Calderón

1333 **Viremia and Clinical Manifestations in Children with Rotavirus Infection**
Elena Chiappini, Luisa Galli, and Maurizio de Martino

1333 ***Legionella* Bacteria in Aerosols: Sampling and Analytical Approaches Used during the Legionnaires Disease Outbreak in Pas-de-Calais**
Laurence Mathieu, Enric Robine, Magali Deloge-Abarkan, Sébastien Ritoux, Danièle Pauly, Philippe Hartemann, and Denis Zmirou-Navier

1335 **Issues in *Chlamydia trachomatis* Testing by Nucleic Acid Amplification Test**
Alula Hadgu

1336 **The Decline in Clinical Sequelae of Genital *Chlamydia trachomatis* Infection Supports Current Control Strategies**
Nicholas J. Moss, Katherine Ahrens, Charlotte K. Kent, and Jeffrey D. Klausner

1338 **Reply to Hagdu and to Moss et al.**
Robert C. Brunham, Babak Pourbohloul, Sunny Mak, Rick White, and Michael L. Rekart

ERRATUM

1340 **Marks et al. (2006; 193:1962–5)**

Volume 193 • Number 10 15 May 2006

EDITORIAL COMMENTARY

1341 **What Role for Inactivated Poliovirus Vaccine in the Eradication Endgame?**
Olen Kew

MAJOR ARTICLES AND BRIEF REPORTS

VIRUSES

1344 **Analysis of Reversions in the 5′-Untranslated Region of Attenuated Poliovirus after Sequential Administration of Inactivated and Oral Poliovirus Vaccines**
Majid Laassri, Kathleen Lottenbach, Robert Belshe, Margaret Rennels, Stanley Plotkin, and Konstantin Chumakov

1350 **A Phase 1 Study of 4 Live, Recombinant Human Cytomegalovirus Towne/Toledo Chimeric Vaccines**
Thomas C. Heineman, Mark Schleiss, David I. Bernstein, Richard R. Spaete, Lihan Yan, Greg Duke, Mark Prichard, Zhaoti Wang, Qing Yan, Margaret A. Sharp, Nicola Klein, Ann M. Arvin, and George Kemble

1361 **Nucleic Acid Testing for West Nile Virus RNA in Plasma Enhances Rapid Diagnosis of Acute Infection in Symptomatic Patients**
Peter A. G. Tilley, Julie D. Fox, Gayatri C. Jayaraman, and Jutta K. Preiksaitis

1365 **A Novel Ex Vivo Assay of Interferon-Based Suppression, to Predict the Outcome of Antiviral Therapy for Hepatitis C**
Chau-Ting Yeh, Chao-Wei Hsu, Ming-Ling Chang, I-Shyan Sheen, Shi-Ming Lin, Chun-Jung Lin, Chen-Chun Lin, Yi-Cheng Chen, and Jeng-Chang Chen

1371 **Association of Transforming Growth Factor–β1 Functional Polymorphisms with Natural Clearance of Hepatitis C Virus**
Tomomi Kimura, Takafumi Saito, Mika Yoshimura, Song Yixuan, Masanori Baba, Guijin Ji, Masaaki Muramatsu, and Sumio Kawata

PARASITES

1375 **Resistance to Antimony and Treatment Failure in Human *Leishmania (Viannia)* Infection**
Ricardo Rojas, Liliana Valderrama, Mabel Valderrama, Maria X. Varona, Marc Ouellette, and Nancy G. Saravia

1384 **Suppression of Prostaglandin E_2 by Malaria Parasite Products and Antipyretics Promotes Overproduction of Tumor Necrosis Factor–α: Association with the Pathogenesis of Childhood Malarial Anemia**
Christopher C. Keller, Gregory C. Davenport, Katherine R. Dickman, James B. Hittner, Sandra S. Kaplan, J. Brice Weinberg, Peter G. Kremsner, and Douglas J. Perkins

1394 ***BAT1*, a Putative Anti-Inflammatory Gene, Is Associated with Chronic Chagas Cardiomyopathy**
Rajendranath Ramasawmy, Edecio Cunha-Neto, Kellen C. Faé, Natalie G. Müller, Vanessa L. Cavalcanti, Sandra A. Drigo, Barbara Ianni, Charles Mady, Jorge Kalil, and Anna Carla Goldberg

1400 **Oral and Intraperitoneal Administration of Phosphorothioate Oligodeoxynucleotides Leads to Control of *Cryptosporidium parvum* Infection in Neonatal Mice**
Mathieu Barrier, Sonia Lacroix-Lamandé, Roselyne Mancassola, Gaël Auray, Nelly Bernardet, Anne-Marie Chaussé, Satoshi Uematsu, Shizuo Akira, and Fabrice Laurent

FUNGI

1408 **The Influence of High-Efficiency Particulate Air Filtration on Mortality and Fungal Infection among Highly Immunosuppressed Patients: A Systematic Review**
Tim Eckmanns, Henning Rüden, and Petra Gastmeier

1419 **Endogenous Interleukin (IL)–1α and IL-1β Are Crucial for Host Defense against Disseminated Candidiasis**
Alieke G. Vonk, Mihai G. Netea, Johan H. van Krieken, Yoichiro Iwakura, Jos W. M. van der Meer, and Bart Jan Kullberg

1427 **Interaction of Radiolabeled Antibodies with Fungal Cells and Components of the Immune System In Vitro and during Radioimmunotherapy for Experimental Fungal Infection**
Ekaterina Dadachova, Ruth A. Bryan, Christos Apostolidis, Alfred Morgenstern, Tong Zhang, Tiffany Moadel, Marcela Torres, Xianchun Huang, Ekaterina Revskaya, and Arturo Casadevall

HIV/AIDS

1437 **Virological Response to Highly Active Antiretroviral Therapy Is Unaffected by Antituberculosis Therapy**
Ronan. A. M. Breen, R. F. Miller, T. Gorsuch, C. J. Smith, J. Ainsworth, J. Ballinger, L. Swaden, I. Cropley, M. A. Johnson, and M. C. I. Lipman

1441 **Independence of Granzyme B Secretion and Interferon-γ Production during Acute Simian Immunodeficiency Virus Infection**
Sandra A. Calarota, Miguel Otero, Tara M. Robinson, Anlan Dai, Mark G. Lewis, Jean D. Boyer, and David B. Weiner

BACTERIA

1451 **Residual Brain Infection in Relapsing-Fever Borreliosis**
Diego Cadavid, Marie Sondey, Edwin Garcia, and Catherine L. Lawson

1459 **Developmental Regulation of *Chlamydia trachomatis* Class I Accessible Protein–1, a $CD8^+$ T Cell Antigen**
Zarine R. Balsara, Nadia R. Roan, Lisa N. Steele, and Michael N. Starnbach

PATHOGENESIS AND HOST RESPONSE

1464 **Reduced Gene Expression of Intestinal α-Defensins Predicts Diarrhea in a Cohort of African Adults**
Paul Kelly, Mona Bajaj-Elliott, Max Katubulushi, Isaac Zulu, Richard Poulsom, Roger A. Feldman, Charles L. Bevins, and Winnie Dhaliwal

CORRESPONDENCE

1471 **Presence or Absence of Cytomegalovirus in Cerebrospinal Fluid from Patients with Guillain-Barré Syndrome?**
Mark L. Kuijf, C. Wim Ang, Pieter A. van Doorn, Hubert G. M. Niesters, and Bart C. Jacobs

1472 **Reply to Kuijf et al.**
Christoph Steininger and Elisabeth Puchhammer-Stöckl

1473 **A Mathematical Model Investigating the Impact of an Environmental Reservoir on the Prevalence and Control of Vancomycin-Resistant Enterococci**
Emma S. McBryde and Donald L. S. McElwain

Volume 193 • Number 11 1 June 2006

EDITORIAL COMMENTARY

1475 **A Persistent(ly) Enigmatic Ecological Mystery: Bacterial Vaginosis**
Jeanne M. Marrazzo

MAJOR ARTICLES AND BRIEF REPORTS

BACTERIA

1478 **High Recurrence Rates of Bacterial Vaginosis over the Course of 12 Months after Oral Metronidazole Therapy and Factors Associated with Recurrence**
Catriona S. Bradshaw, Anna N. Morton, Jane Hocking, Suzanne M. Garland, Margaret B. Morris, Lorna M. Moss, Leonie B. Horvath, Irene Kuzevska, and Christopher K. Fairley

1487 **Indirect Effect of Conjugate Vaccine on Adult Carriage of *Streptococcus pneumoniae:* An Explanation of Trends in Invasive Pneumococcal Disease**
Laura L. Hammitt, Dana L. Bruden, Jay C. Butler, Henry C. Baggett, Debby A. Hurlburt, Alisa Reasonover, and Thomas W. Hennessy

1495 **Roles of 34 Virulence Genes in the Evolution of Hospital- and Community-Associated Strains of Methicillin-Resistant *Staphylococcus aureus***
Binh An Diep, Heather A. Carleton, Richard F. Chang, George F. Sensabaugh, and Françoise Perdreau-Remington

HIV/AIDS

1504 **Revisiting the Role of Neutralizing Antibodies in Mother-to-Child Transmission of HIV-1**
Francis Barin, Gonzague Jourdain, Sylvie Brunet, Nicole Ngo-Giang-Huong, Supawadee Weerawatgoompa, Warit Karnchanamayul, Surabhon Ariyadej, Rawiwan Hansudewechakul, Jullapong Achalapong, Prapap Yuthavisuthi, Chaiwat Ngampiyaskul, Sorakij Bhakeecheep, Chittaphon Hemwutthiphan, Marc Lallemant, and the Perinatal HIV Prevention Trial Group

1512 **Association between the Replication Capacity and Mother-to-Child Transmission of HIV-1, in Antiretroviral Drug–Naive Malawian Women**
Susan H. Eshleman, Yolanda Lie, Donald R. Hoover, Shu Chen, Sarah E. Hudelson, Susan A. Fiscus, Christos J. Petropoulos, Newton Kumwenda, Neil Parkin, and Taha E. Taha

1516 **Lopinavir-Ritonavir: Effects on Endothelial Cell Function in Healthy Subjects**
Jessica R. Grubb, André Dejam, Jocelyn Voell, William C. Blackwelder, Peter A. Sklar, Joseph A. Kovacs, Richard O. Cannon, Henry Masur, and Mark T. Gladwin

1520 **Cytokine Modulation of the Innate Immune Response in Feline Immunodeficiency Virus–Infected Cats**
Gregg A. Dean, Alora LaVoy, Jennifer Yearley, and Christine Stanton

VIRUSES

1528 **Long-Term Protection against Carriage of Hepatitis B Virus after Infant Vaccination**
M. A. B. van der Sande, P. Waight, M. Mendy, P. Rayco-Solon, P. Hutt, T. Fulford, C. Doherty, S. J. McConkey, D. Jeffries, A. J. Hall, and H. C. Whittle

1536 **The Relationship of Rhinovirus-Associated Asthma Hospitalizations with Inhaled Corticosteroids and Smoking**
Daniel L. Venarske, William W. Busse, Marie R. Griffin, Tebeb Gebretsadik, Ayumi K. Shintani, Patricia A. Minton, R. Stokes Peebles, Robert Hamilton, Elizabeth Weisshaar, Rose Vrtis, Stanley B. Higgins, and Tina V. Hartert

1544 **The Impact of Infection with Human Metapneumovirus and Other Respiratory Viruses in Young Infants and Children at High Risk for Severe Pulmonary Disease**
M. Ines Klein, Silvina Coviello, Gabriela Bauer, Alicia Benitez, M. Elina Serra, M. Paula Schiatti, M. Florencia Delgado, Guillermina A. Melendi, Luis Novalli, Hebe Gonzalez Pena, Ruth A. Karron, Steven R. Kleeberger, and Fernando P. Polack

1552 **Kinetics of US28 Gene Expression during Active Human Cytomegalovirus Infection in Lung-Transplant Recipients**
Jasper M. Boomker, Erik A. M. Verschuuren, Marja G. L. Brinker, Lou F. M. H. de Leij, T. Hauw The, and Martin C. Harmsen

1557 **Reduced Foxp3 Protein Expression Is Associated with Inflammatory Disease during Human T Lymphotropic Virus Type 1 Infection**
Unsong Oh, Christian Grant, Caitlin Griffith, Kazunori Fugo, Norihiro Takenouchi, and Steven Jacobson

PARASITES

1567 **Virulence of Malaria Is Associated with Differential Expression of *Plasmodium falciparum var* Gene Subgroups in a Case-Control Study**
Mirjam Kaestli, Ian A. Cockburn, Alfred Cortés, Kay Baea, J. Alexandra Rowe, and Hans-Peter Beck

1575 **Interferon-γ and Nitric Oxide in Combination with Antibodies Are Key Protective Host Immune Factors during *Trypanosoma congolense* Tc13 Infections**
Stefan Magez, Magdalena Radwanska, Michael Drennan, Lizette Fick, Toya Nath Baral, Frank Brombacher, and Patrick De Baetselier

1584 **Chemokine CC Receptor 2 Is Important for Acute Control of Cardiac Parasitism but Does Not Contribute to Cardiac Inflammation after Infection with *Trypanosoma cruzi***
Jenny L. Hardison, William A. Kuziel, Jerry E. Manning, and Thomas E. Lane

FUNGI

1589 **Recognition of *Candida albicans* by Mannan-Binding Lectin In Vitro and In Vivo**
Joseph B. Lillegard, Robert B. Sim, Peter Thorkildson, Marcellene A. Gates, and Thomas R. Kozel

PATHOGENESIS AND HOST RESPONSE

1598 **Predominant Influence of Environmental Determinants on the Persistence and Avidity Maturation of Antibody Responses to Vaccines in Infants**
Arnaud Marchant, Maria Pihlgren, Tessa Goetghebuer, Helen A. Weiss, Martin O. C. Ota, Susana E. Schlegel-Hauter, The Medical Research Council Gambia Twin Study Group,, Hilton Whittle, Paul-Henri Lambert, Melanie J. Newport, and Claire-Anne Siegrist

CORRESPONDENCE

1606 **Interferon-γ–Mediated Antiviral Immunity against Orthopoxvirus Infection Is Provided by γδ T Cells**
Chiara Agrati, Concetta Castilletti, Rafaella De Santis, Eleonora Cimini, Licia Bordi, Miroslav Malkovsky, Fabrizio Poccia, and Maria Rosaria Capobianchi

1607 **Reply to Agrati et al.**
Getahun Abate, Joy Eslick, Frances K. Newman, Sharon E. Frey, Robert B. Belshe, Thomas P. Monath, and Daniel F. Hoft

1609 **Single-Dose Sulfadoxine-Pyrimethamine in Intermittent Preventive Treatment of Malaria**
Roly D. Gosling, David M. Schellenberg, and Danial Chandramohan

1610 **Reply to Gosling et al.**
F. Marks, R. Kobbe, C. G. Meyer, and J. May

1611 **Gilbert Syndrome and the Development of Antiretroviral Therapy–Associated Hyperbilirubinemia: Genetic Screening Is Unnecessary**
Richard E. Nettles, Michael J. Child, Richard J. Bertz, and Steven Schnittman

1612 **Reply to Nettles et al.**
Amalio Telenti

1613 **Heterosubtypic Immunity to Influenza: Right Hypothesis, Wrong Comparison**
Fabrice Carrat and Audrey Lavenu

1613 **Reply to Carrat and Lavenu**
Suzanne L. Epstein

1614 **Excretion of Oral Poliovirus Vaccine Strains: Effect of Vaccination Schedule**
John F. Modlin and Neal A. Halsey

Volume 193 • Number 12 15 June 2006

EDITORIAL COMMENTARY

1617 **A Tribute to the Life of Richard K. Root, MD: 1 December 1937–19 March 2006**
Harvey M. Friedman

MAJOR ARTICLES AND BRIEF REPORTS

VIRUSES

1619 **Airflow Decline after Myeloablative Allogeneic Hematopoietic Cell Transplantation: The Role of Community Respiratory Viruses**
Veronique Erard, Jason W. Chien, Hyung W. Kim, W. Garrett Nichols, Mary E. Flowers, Paul J. Martin, Lawrence Corey, and Michael Boeckh

1626 **Distribution of Amantadine-Resistant H5N1 Avian Influenza Variants in Asia**
Chung-Lam Cheung, Jane M. Rayner, Gavin J. D. Smith, Pui Wang, T. S. P. Naipospos, Jinxia Zhang, Kwok-Yung Yuen, Robert G. Webster, J. S. Malik Peiris, Yi Guan, and Honglin Chen

1630 **Genetic Diversity of Human Metapneumovirus over 4 Consecutive Years in Australia**
Ian M. Mackay, Seweryn Bialasiewicz, Kevin C. Jacob, Emily McQueen, Katherine E. Arden, Michael D. Nissen, and Theo P. Sloots

1634 **Human Metapneumovirus Infection Induces Long-Term Pulmonary Inflammation Associated with Airway Obstruction and Hyperresponsiveness in Mice**
Marie-Ève Hamelin, Gregory A. Prince, Ana M. Gomez, Richard Kinkead, and Guy Boivin

1643 **Swine as a Principal Reservoir of Hepatitis E Virus that Infects Humans in Eastern China**
Yingjie Zheng, Shengxiang Ge, Jun Zhang, Qingshun Guo, Mun Hon Ng, Fadi Wang, Ningshao Xia, and Qingwu Jiang

1650 **Postexposure Protection of Guinea Pigs against a Lethal Ebola Virus Challenge Is Conferred by RNA Interference**
Thomas W. Geisbert, Lisa E. Hensley, Elliott Kagan, Erik Zhaoying Yu, Joan B. Geisbert, Kathleen Daddario-DiCaprio, Elizabeth A. Fritz, Peter B. Jahrling, Kevin McClintock, Janet R. Phelps, Amy C. H. Lee, Adam Judge, Lloyd B. Jeffs, and Ian MacLachlan

1658 **Protection of Rhesus Monkeys against Dengue Virus Challenge after Tetravalent Live Attenuated Dengue Virus Vaccination**
Wellington Sun, Ananda Nisalak, Montip Gettayacamin, Kenneth H. Eckels, J. Robert Putnak, David W. Vaughn, Bruce L. Innis, Stephen J. Thomas, and Timothy P. Endy

BACTERIA

1666 **Immunization with a Tetraepitopic Lipid Core Peptide Vaccine Construct Induces Broadly Protective Immune Responses against Group A Streptococcus**
Colleen Olive, Mei-Fong Ho, Joanne Dyer, Douglas Lincoln, Nadia Barozzi, Istvan Toth, and Michael F. Good

1677 **Use of DNA Arrays to Identify a Mutation in the Negative Regulator, *csrR*, Responsible for the High Virulence of a Naturally Occurring Type M3 Group A Streptococcus Clinical Isolate**
Tohru Miyoshi-Akiyama, Tadayoshi Ikebe, Haruo Watanabe, Takehiko Uchiyama, Teruo Kirikae, and Yoshiaki Kawamura

1685 **Group A Streptococcal Myonecrosis: Increased Vimentin Expression after Skeletal-Muscle Injury Mediates the Binding of *Streptococcus pyogenes***
Amy E. Bryant, Clifford R. Bayer, Jeremy D. Huntington, and Dennis L. Stevens

1693 **Myeloid Differentiation Primary Response Gene (88)– and Toll-Like Receptor 2–Deficient Mice Are Susceptible to Infection with Aerosolized *Legionella pneumophila***
Thomas R. Hawn, Kelly D. Smith, Alan Aderem, and Shawn J. Skerrett

1703 **A Multidrug-Resistant, *acr1*-Deficient Clinical Isolate of *Mycobacterium tuberculosis* Is Unimpaired for Replication in Macrophages**
Juliano Timm, Natalia Kurepina, Barry N. Kreiswirth, Frank A. Post, Gabrielle B. Walther, Helen C. Wainwright, Linda-Gail Bekker, Gilla Kaplan, and John D. McKinney

1711 **Autoimmunohistochemistry: A New Method for the Histologic Diagnosis of Infective Endocarditis**
Hubert Lepidi, Bema Coulibaly, Jean-Paul Casalta, and Didier Raoult

HIV/AIDS

1718 **Long-Term Decay of the HIV-1 Reservoir in HIV-1–Infected Children Treated with Highly Active Antiretroviral Therapy**
Marisa Zanchetta, Sarah Walker, Nicoletta Burighel, Domenico Bellanova, Osvalda Rampon, Carlo Giaquinto, and Anita De Rossi

1728 **Detection of Ganciclovir Resistance in Patients with AIDS and Cytomegalovirus Retinitis: Correlation of Genotypic Methods with Viral Phenotype and Clinical Outcome**
Douglas A. Jabs, Barbara K. Martin, Michelle O. Ricks, and Michael S. Forman, for the Cytomegalovirus Retinitis and Viral Resistance Study Group

PARASITES

1738 **Occurrence of the Southeast Asian/South American SVMNT Haplotype of the Chloroquine-Resistance Transporter Gene in *Plasmodium falciparum* in Tanzania**
Michael Alifrangis, Michael B. Dalgaard, John P. Lusingu, Lasse S. Vestergaard, Trine Staalsoe, Anja T. R. Jensen, Anders Enevold, Anita M. Rønn, Insaf F. Khalil, David C. Warhurst, Martha M. Lemnge, Thor G. Theander, and Ib C. Bygbjerg

CORRESPONDENCE

1742 **Investigating New Antiretroviral Combinations**
Andrew Carr

1742 **Reply to Carr**
Joel E. Gallant, Michael L. Lim, and Mark S. Shaefer

1743 **Reply to Carr**
Daniel R. Kuritzkes

1743 **No Role for Thalidomide in the Treatment of Leprosy**
Colin L. Crawford

1744 **Reply to Crawford**
Patrick A. J. Haslett and Gilla Kaplan

1746 **Reviewers of Volume 193**

1750 **Author Index to Volume 193**

Volume contents